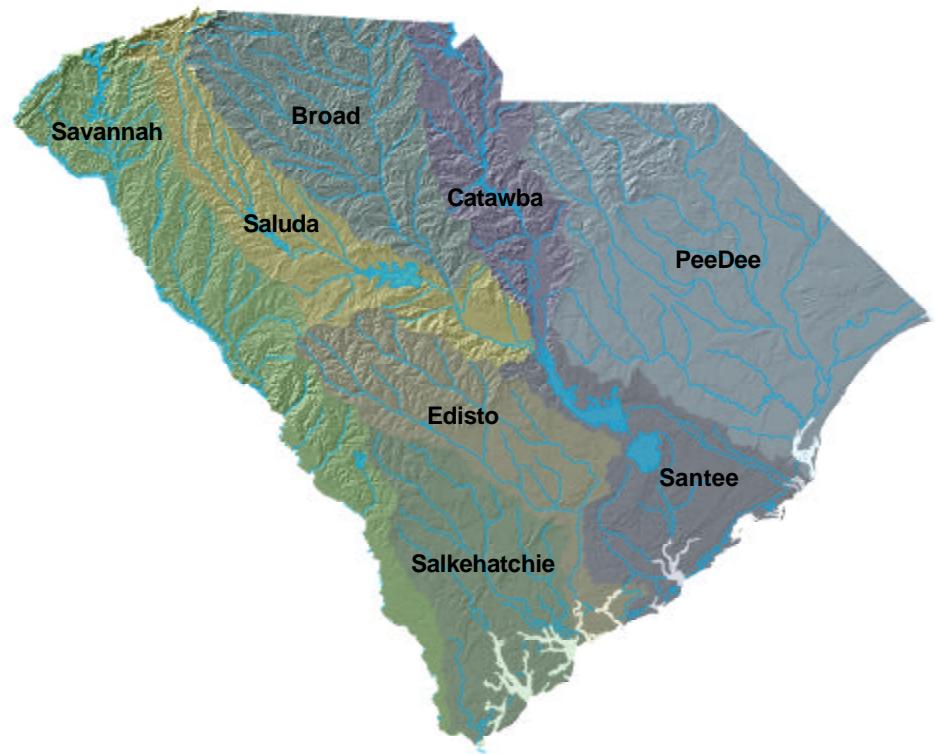


Bureau of Water

South Carolina Department of Health and Environmental Control

South Carolina Ambient Groundwater Quality Monitoring Network

2002 Annual Report



Catawba and Santee Basins



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South Carolina Ambient Groundwater Quality Report, 2002 Summary: Catawba – Santee Basins

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Abstract

An ambient groundwater quality monitoring network has been established in South Carolina for the purpose of obtaining statewide and aquifer-specific baseline values of groundwater quality. This network utilizes selected public and private water supply wells for obtaining groundwater samples. Initial sampling was performed in 1987 encompassing 19 wells in four counties. As of 2002, wells from various counties were added from all the major aquifers of South Carolina, and to date South Carolina has a comprehensive network of 116 wells sampling various depths and locations of the nine major aquifers.

The geology of South Carolina influences the quality and composition of the groundwater and dictates the methods of obtaining the water, and is separated neatly along the fall-line running along a SW-NE line through the middle of the state. Wells sampled in the Piedmont tap either the thin layer of saprolite at the surface, or the underlying fractured bedrock, consisting of low to medium grade metamorphic rocks with scattered granitic plutons. Wells sampled to the east of the fall line tap one of the seven extensive coastal plain aquifers that generally consist of sand, silt or permeable carbonate rocks.

Water quality data indicate that a high degree of variability exists throughout the coastal plain, with anion and cation concentrations generally increasing toward the coast. The presence and concentration of many chemical constituents are controlled by aquifer geology and geochemistry. It is the purpose of this report to describe and explain some of the trends in geochemistry that exist throughout the aquifers of the Catawba and Santee Basins and contrast those results with existing data from ambient groundwater samples previously obtained.

Introduction

The state of South Carolina depends upon its groundwater resources to supply an estimated 40 percent of its residents. To monitor the ambient quality of this valuable resource, a network of existing public and private water supply wells has been established which provide groundwater quality data representing all of the State's major aquifers.

Although a great deal of groundwater quality monitoring is presently being carried out within South Carolina, this is generally at regulated industrial or commercial sites which have known or potential groundwater contamination. In general, these sites are monitored for water quality only in the uppermost (water table) aquifer. The monitoring program described herein has been designed to avoid wells in these areas of known or potential contamination, thereby allowing for the assumption that variability in water chemistry reflects differences in any aquifer's background geochemistry caused by the natural heterogeneity of geologic materials and not anthropogenic causes for changes in aquifer chemistry.

Data derived from this monitoring network have been analyzed for the purpose of identifying variations in water chemistry among the State's major aquifers and developing an understanding of the ambient groundwater quality across South Carolina. The concentrations of certain chemical parameters in a region and/or aquifer may be used as a general indicator against which conditions of potential contamination can be assessed at sites within that area. It is not, however, intended to be used for all site specific comparisons of water quality.

This report is presented in two sections. The first section is an outline of the methods involved in establishing and operating the monitoring network. This includes details concerning well selection, sample collection, chemical analysis, data management, data analysis, and implementation schedules. The second section is a report of the results of the monitoring efforts since 1987. Results include a discussion of the geology and hydrogeology of the aquifers monitored, and in addition, a discussion of aquifer specific and geographic variations in water quality.

Objectives

The primary objective of the monitoring network is to develop a baseline for ambient groundwater quality for all of South Carolina's aquifers. Through utilization of this data many other objectives may be achieved. Included among these secondary objectives are:

- 1) To determine areal variations in regional groundwater quality.
- 2) To determine aquifer-specific variability in water quality.
- 3) To detect any significant changes in groundwater quality over time. These time related variations are capable of being determined on both a regional and a statewide level.
- 4) To supply ambient groundwater quality data for certain areas or aquifers which are in the initial phase of potential contamination investigations.

It is worthwhile to point out some applications for which these data are not intended. The water quality database is not intended to be used as a tool for locating previously unknown sites of groundwater contamination or for assuring compliance with regulations if such sites enter a monitoring phase. Because of natural areal variations in water chemistry, ambient data are also not intended for use as a substitute for on-site background water quality monitoring by facilities that may be in the general vicinity.

Methods and Organization

Well Selection

The ambient monitoring network is comprised exclusively of existing public and private water supply wells. Public wells are generally preferred and constitute a majority of the network. Preference is given to public supply wells because of their potential for greater longevity and continuity of ownership in comparison to private water sources. Public wells also offer the benefit of pumping large volumes of water, thus supplying water samples that represent a more sizeable portion of the aquifer than a private well. However, in certain rural areas, where public supply wells are not available, private water wells are utilized despite the fact that a general lack of construction details for these private wells can limit their value as monitoring points.

Initial well selection steps are governed by the availability and completeness of drilling records contained within state files. If complete records exist with respect to location, depth, aquifer, etc., a well may then be further considered for incorporation into the monitoring network. Although past water quality analysis data exist for many network wells, particularly public supply wells, no consideration is given to these data when selecting network wells. This avoidance is necessary to avoid creating a bias in water quality toward chemical constituent concentrations that are higher or lower than anticipated or simply due to lack of documentation on previous quality control.

In order to sample water from "all" portions of the State's major aquifers, well selection criteria also include consideration of which aquifer each well is utilizing, along with the geographic distribution of wells within each aquifer. A final consideration that is addressed when selecting network wells is the presence of, or potential for, contamination within the area. At the time of well sampling, a field check of the area surrounding the well site is performed. If a significant potential contamination source is located in the vicinity, the well is not included in the monitoring network.

Sample Collection and Chemical Analysis

Proper sampling protocol is essential for any monitoring program that is to provide meaningful and accurate data. The Department of Health and Environmental Control, Environmental Quality Control

(ECQ) Standard Operating Procedures and Quality Assurance Manual, *EQC SOP and QA Manual* for short, provides a thorough review of monitoring sampling considerations, many of which may be directly applied to an ambient monitoring program. *The EQC SOP and QA Manual* includes Sections 5 and 6, Groundwater Monitoring and Sampling, and Sampling of Public and Wells, respectively, that specifically outline sample capture, cross-contamination prevention, and preservation of grab samples. A brief outline of some of the practices and considerations is presented below.

The sampling must be performed in a manner that will allow collection of groundwater that has not been chemically altered by the well system. Public supply wells can normally be sampled from a blow-off pipe or sample cock that is situated between the wellhead and any treatment systems. Private well samples are ideally drawn from the tap closest to the well. Water should be allowed to flow for a time period that is sufficient to recycle water through the entire volume of any pressure tanks in the system if the sample is collected past a pressure tank. Unless a significant volume of water has been pumped from a well immediately prior to sampling, an amount of water equal to or greater than the well volume should also be flushed through the system in order to reduce the likelihood of chemical alteration from well casings, pumps or residence time in a well.

Samples are collected in appropriately prepared laboratory bottles that are compatible with the chemical constituent being measured. All samples are preserved with proper chemicals [such as sulfuric acid for total organic carbon (TOC) and nutrients, and nitric acid for metals] and refrigerated until submitted to the laboratory for analysis. Specific conductance, pH and temperature of the water sample are measured in the field at the time of collection.

Laboratory analyses of water samples cover a wide spectrum of parameters that, as a whole, provide the information that is required to characterize both aquifer and regional groundwater quality. Appendix A presents a list of the chemical parameters that were analyzed. The sampling frequency for all network wells is once every five years.

Well selection and initial sampling at each well are carried out by staff members from the Groundwater Management Section in the Water Monitoring, Assessment, and Protection Division. Any well samples that have chemical concentrations in excess of the National Primary Drinking Water Regulations (Appendix B) will be resampled and analyzed to confirm constituent concentrations. If it is determined that a well is contaminated by anthropogenic causes, the well will be removed from the ambient monitoring network, and the well owner will be referred to proper South Carolina Department of Health and Environmental Control (SCDHEC) personnel for assistance. Future sampling of any wells found to be contaminated will be performed as part of a contamination source investigation.

Data Management and Analysis

The ease with which information can be accessed is a critical factor in determining the success of any monitoring program. In the ambient monitoring network described here, all data related to well information and water quality are stored in an Access database and in STORET, the US Environmental Protection Agency's STOrage and RETrieval system for water quality data. Analyses of network groundwater samples may be presented by way of trilinear (Piper) diagrams and graphs. The statewide distribution of the various water types for the state's primary aquifers is shown in **Figure 11**. Discussion of various data analyses consider comparisons of water quality to factors such as geology of aquifers, variations of chemical constituent levels among regions, and changes in water quality over time.

Implementation Schedule

The ambient monitoring network was initiated in 1987 on a trial basis in a four county area. At that time, the network included 19 wells, both public and private, and was primarily intended to test and establish the network's methods. In 1988 and 1989, ten and sixteen additional counties were added,

respectively. Nineteen wells were added to the network in 1990, another nine wells were added in 1991, and one more in 2000 and 2001. Each year a selection of the wells from a specific aquifer were sampled on a five-year cycle, until 2000. The current strategy involves sampling all represented aquifers within one of the eight major watersheds (Figure 1). These and their scheduled sampling dates are as follows:

Schedule:

- | | |
|-------|---|
| 2000: | Savannah and Salkehatchie (25 wells): Piedmont Bedrock; Saprolite; Middendorf; Pee Dee/Black Creek; Tertiary Limestone |
| 2001: | Saluda and Edisto (29 wells): Piedmont Bedrock; Saprolite; Middendorf; Black Mingo; Tertiary Limestone |
| 2002: | Catawba and Santee (15 wells): Piedmont Bedrock; Middendorf; Black Creek; Pee Dee, Black Mingo |
| 2003: | Pee Dee (28 wells): Piedmont Bedrock; Middendorf; Black Creek |
| 2004: | Broad (16 wells): Piedmont Bedrock; Saprolite; Middendorf |
-



Figure 1: Locations of the eight major watersheds of South Carolina. This report highlights groundwater sampling conducted in the Catawba and Santee Basins (highlighted in blue).

2002 Monitoring Program

Location

As noted above, the 2002 groundwater quality monitoring consisted of sampling wells in the selected aquifers of the Catawba and Santee basins. Two new wells were added to replace stations that had either been taken offline or abandoned altogether since the last sampling run. These new stations were chosen for their proximity to the old stations and their comparable depth. Well locations are presented below in **Figure 2**.

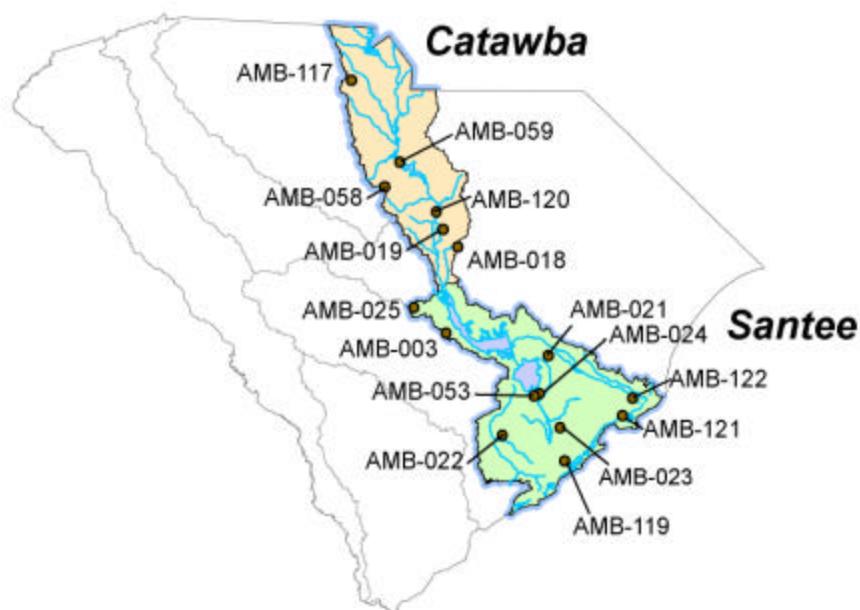


Figure 2: Locations of wells within the Catawba and Santee basins sampled during 2002.

Network Wells

The monitoring network includes water quality data from 122 wells (Appendix C). Of these, 85 are used for public supply purposes, 34 for commercial or domestic supplies, and the remaining 3 provide water for fish hatchery ponds and heating/cooling purposes. The complete construction records available for the network wells allow reasonably accurate determination of which aquifer is being utilized at each location, and to a lesser degree, the nature of subsurface stratigraphy throughout the well's depth range. The limiting factor for the latter is often times the incomplete nature of driller's logs.

Physiography and Subsurface Geology

The physiographic regions exhibit variations in topography, geomorphology, geology, hydrology and vegetation that directly affect the quantity, quality and availability of water resources in South Carolina. The state is divided roughly in half by the Fall Line (**Figure 3**), a distinct surface transition from the igneous and metamorphic rocks of the Piedmont and Blue Ridge to the sedimentary formations of the Coastal Plain. The sedimentary deposits that contain the various coastal plain aquifers are the result of various sea level fluctuations and concomitant differential sedimentation and erosion. **Figure 4** illustrates the relationship of the major aquifers and confining units. Present are the Black Creek, Pee Dee, Black Mingo, and the Tertiary limestone/sand aquifers, which respectively overlie the Middendorf and Cape Fear formations. The Cape Fear is not utilized in South Carolina because of its great depth and poor water quality and, as such, is not described in this report.



Figure 3: Physiographic regions of South Carolina. Note the Fall Line separating the Piedmont from the Coastal Plain.

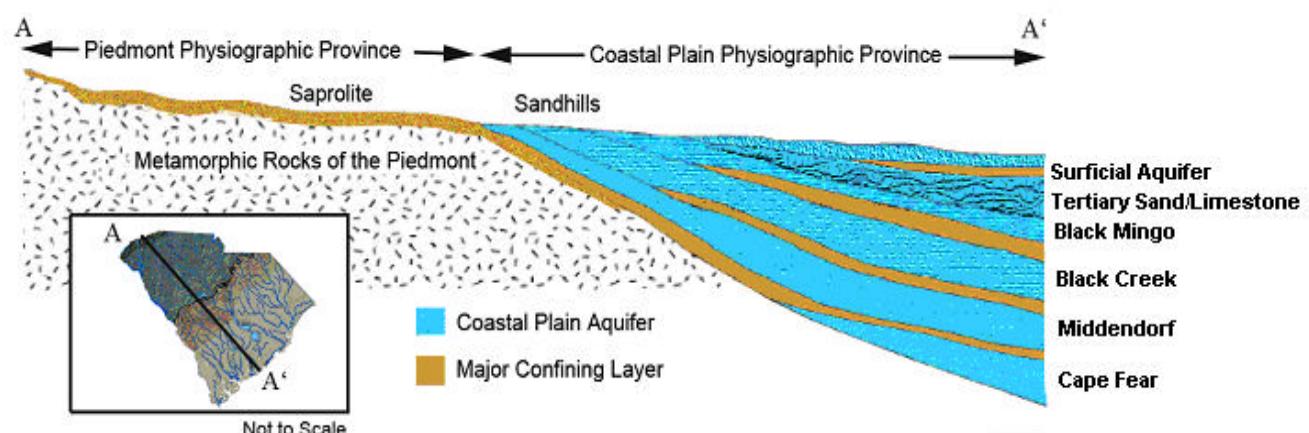


Figure 4: Generalized hydrogeologic cross-section through the Coastal Plain. The Pee Dee Aquifer, where present, is located below the Black Mingo Aquifer.

Hydrogeology and Water Quality

2002 Ambient Groundwater Quality Sampling Results

Results of laboratory analysis of groundwater samples obtained within the Catawba and Santee basins are presented in **Figures 5** and **6** by way of Piper trilinear diagrams. These diagrams display major trends of basic geochemistry by percentage of major cations and anions, not necessarily total abundance. Although an exacting interpretation of water quality is difficult using Piper diagrams, some trends, as evidenced by grouping or translation of data points along a common axis, are apparent. Further discussion of sampling results and geochemical interpretations are discussed by aquifer in the following section.

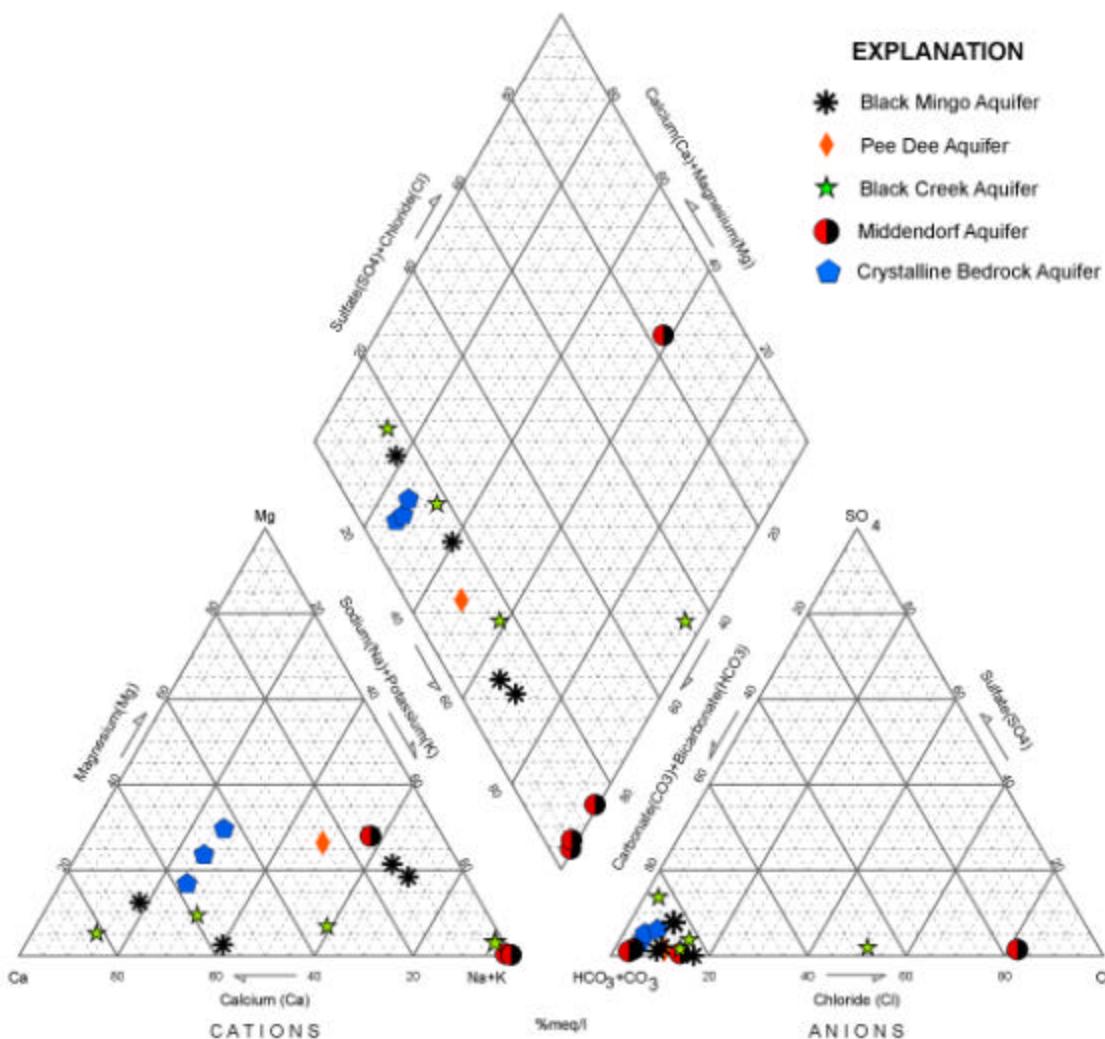


Figure 5: Piper diagram of 2002 ambient groundwater quality sampling results by aquifer.

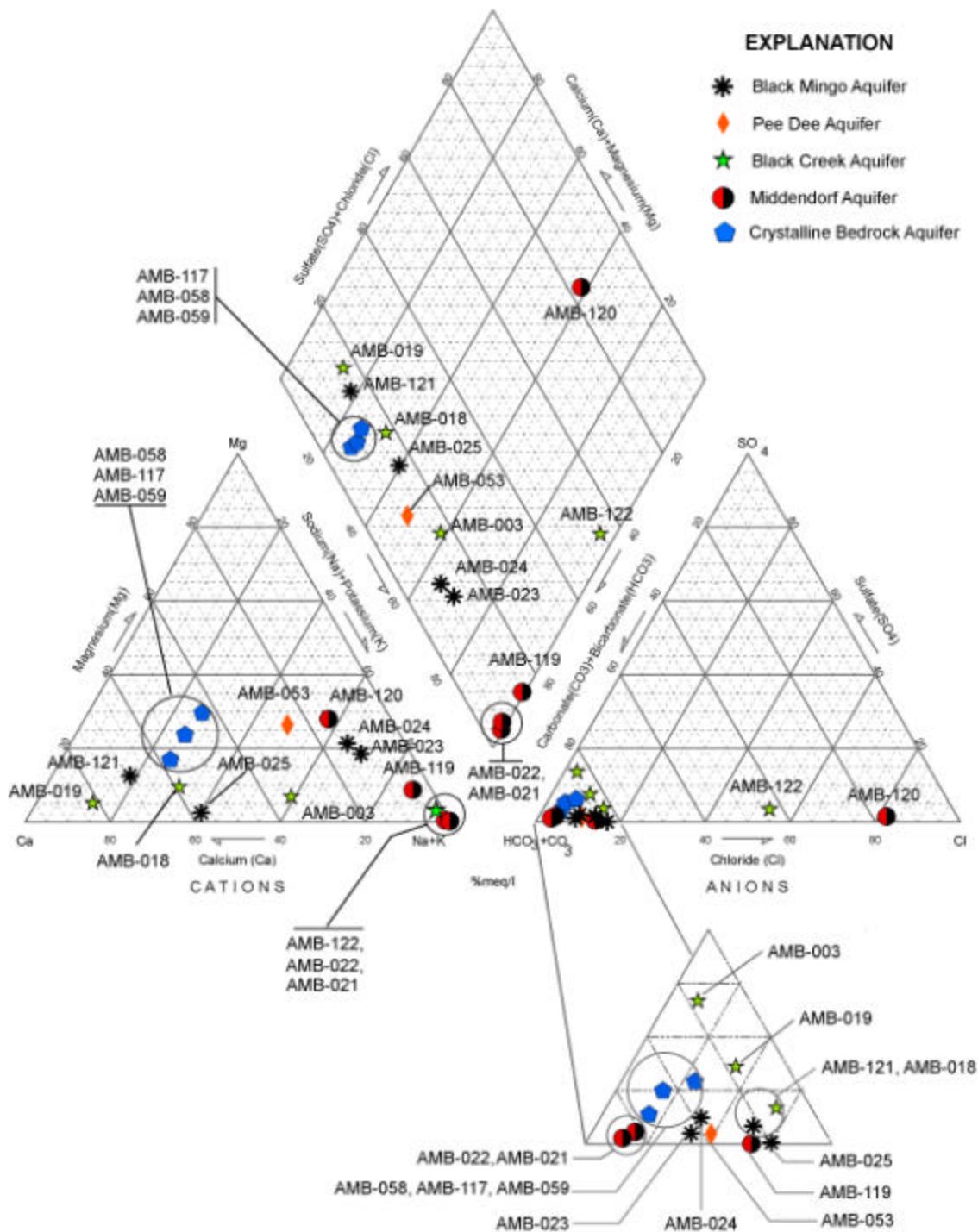


Figure 6: Piper diagram of 2002 ambient groundwater quality sampling results by well and aquifer. Refer to **Figure 2** for ambient groundwater well sampling locations.

Piedmont Bedrock Aquifer

Groundwater supplies in the Piedmont and Blue Ridge physiographic provinces of South Carolina come from three types of hydrogeologic environments. These include the unweathered fractured crystalline bedrock, the overlying saprolitic regolith, and to a limited extent the alluvial valley fill deposits. Most public and private wells are completed in the fractured crystalline bedrock. Although the bedrock exists in a variety of mineralogical assemblages and textures, it has not been hydraulically characterized to an extent that allows designation of separate or distinct aquifers within the bedrock. Indeed, separate aquifers may not exist. For these reasons, the water-bearing portion of the Piedmont bedrock has been collectively termed the “bedrock aquifer” (Oldham, 1986).

Yields from crystalline bedrock vary greatly among wells, depending primarily upon the existence of joints and fractures within the rock. If fractures do exist, yield and specific capacity further depend upon the size of fractures and degree of fracture interconnection. The overlying saprolite is hydraulically connected with the underlying bedrock and provides the primary source of recharge water to the bedrock aquifer. Yields of 4 to 170 gallons per minute (gpm) from the 30 network wells in the Piedmont bedrock have been recorded. This broad range in yield is an indicator of the great variability in the occurrence, size and interconnection of joints and other fractures that exist in this aquifer.

Analysis of three samples obtained from wells completed in the Piedmont Bedrock Aquifer in the Catawba basin show close agreement in geochemical composition (**Figure 6**). All samples display a neutral pH tendency (7.0-7.7), and low total dissolved solids (TDS). Calcium was the dominant cation while bicarbonate was the most abundant anion. All samples displayed a tendency towards a moderately hard state. As in other samples from the crystalline bedrock (**Figure 11**), concentrations of silica were high when compared to samples from other aquifers in the Catawba and Santee basins, with the exception of the Black Mingo aquifer. It is suspected that the high silica in the bedrock wells is a function of residence time and the weathering of more readily leachable silica minerals during clay mineral pedogenesis as a result of chemical weathering processes.

Middendorf Aquifer

The Middendorf Aquifer overlies the crystalline bedrock and associated saprolite and stretches from the upper coastal plain beyond the Atlantic coastline where it is buried by younger Coastal Plain sediments at maximum depths of over 3000 feet (**Figure 3, 4**). In the upper coastal plain, the Middendorf Aquifer provides groundwater to numerous domestic, municipal, and industrial users; however, it is tapped by only a few wells in the middle and lower coastal plain regions. The lower usage toward the coast is primarily a result of the presence of shallower, more economically developed aquifers such as the Black Creek and Tertiary Limestone (Floridan) Aquifers. Middendorf sediments are comprised of fine to coarse quartzitic and arkosic sands, with discontinuous interbeds of sandy clays, kaolins and gravel. Since the Middendorf Aquifer of the upper coastal plain is comprised of clean quartz sands that have been thoroughly leached, only a minimum concentration of ions are present in its water. Groce (1980) described water from the Middendorf Aquifer in the upper coastal plain as being generally soft, acidic, and low in dissolved solids, with locally high iron contents. The Middendorf Aquifer wells sampled in the upper coastal plain generally conform to this description. In contrast, lower coastal plain water from the Middendorf Aquifer is often highly mineralized. The downdip increase in ion concentration is thought to be largely a function of the residence time of the water in the aquifer (flow is from the updip recharge area in the upper coastal plain toward downdip, coastal area), as well as from the possible mixing of more mineralized water from adjacent aquifers.

Figure 7 illustrates the downdip increase in pH from the upper coastal plain (Elgin, AMB-120) to well in the lower Santee basin [e.g. Summerville (AMB-022), and Mt. Pleasant (AMB-119)]. This is in contrast to the much lower, acidic pH values found in the recharge area where buffering effects are not significant. Other changes in groundwater chemistry from the Middendorf's shallow recharge area

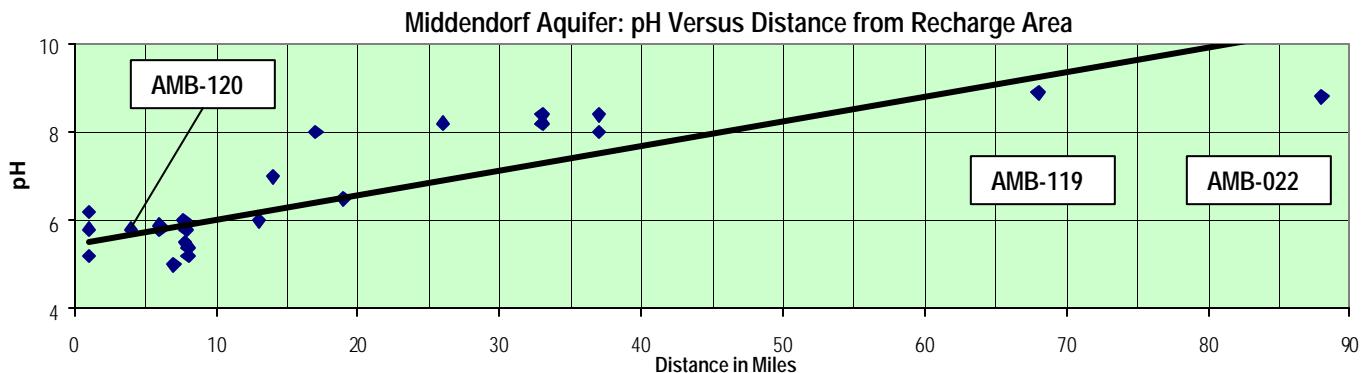


Figure 7: Graph representing the trend of pH in the Middendorf Aquifer relative to the distance from the aquifer's primary recharge area. Note that the average pH of rainwater is 5.65 (Hem, 1970).

to deeper portions of the aquifer include a less distinct downdip increase in fluoride concentrations (**Figure 8**). Ambient groundwater samples from wells open to the Middendorf Formation in the Catawba and Santee basins are predominantly soft sodium bicarbonate waters with high TDS and specific conductivity from the sodium and potassium content with the exception of AMB-120 from Elgin (**Figure 6**). Analysis of this sample returned results similar to rainwater or with a pH of 5.2 and low TDS, which is consistent with other samples from the Middendorf aquifer near the recharge area.

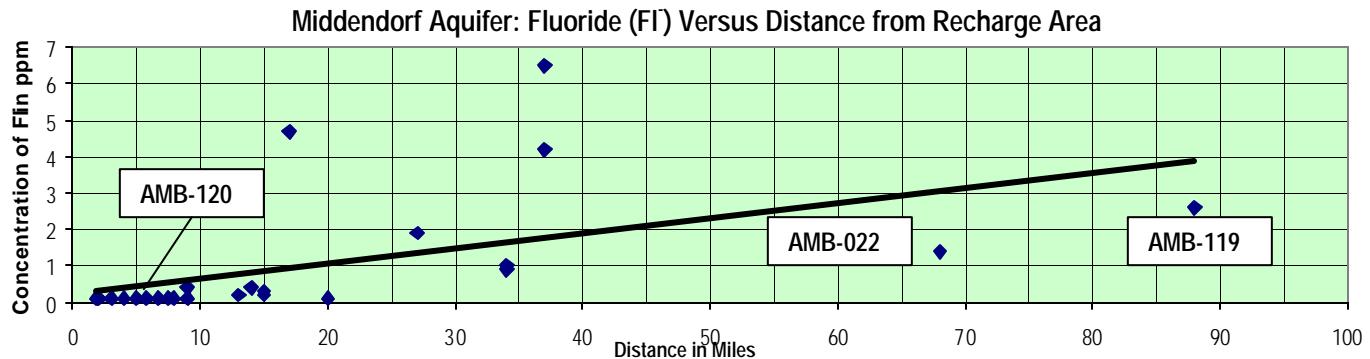


Figure 8: Fluoride concentration in parts per million versus distance from the Middendorf aquifer's primary recharge areas. The current MCL for fluoride is 4.0 ppm (EPA, 2005)

Black Creek Aquifer

The Black Creek Aquifer is an important source of groundwater in the central coastal plain portion of the Catawba and Santee basins, namely Berkeley, Clarendon, Orangeburg, and Sumter counties. This aquifer consists of medium to coarse-grained glauconitic and phosphatic quartz sands interbedded with lenses of lignitic and micaceous clays. In some areas, the Black Creek Aquifer is hydraulically similar to, and screened in the same well with, the underlying Middendorf Aquifer. Yields of over 1000 gpm from the Black Creek are quite common when wells are screened in both aquifers. Yields that were recorded for Black Creek wells in the monitoring network ranged from 50 to 1500 gpm.

Similar to the Middendorf Aquifer, Black Creek Aquifer water chemistry also indicates a relationship between distance from recharge area and certain chemical concentrations (**Figure 10**). The

high fluoride values in the Black Creek may be attributable to the presence of fluorapatite from the abundant fossilized shark teeth in the formation (Zack, 1980). Values of pH in the Black Creek Aquifer are generally alkaline, with a much less distinct trend toward higher downdip values than those observed in the Middendorf Aquifer (**Figure 9**).

On a statewide basis, samples obtained from the Black Creek aquifer display high variability in their composition (**Figure 11**), and samples from the recharge areas through the middle coastal plain often show no dominant ionic affinity. With increased distance from the recharge area, Black Creek waters become more buffered and are typically a sodium bicarbonate type. Proximal to the coast, samples from the Black Creek become increasingly sodium chloride-type waters. Samples obtained from the Catawba and Santee basins followed this observed pattern with pH, TDS, sodium and fluoride increasing towards the coast. AMB-122 near Hampton Plantation State Park (~13 miles from the Atlantic Ocean) displayed the highest specific conductance, TDS, and chloride concentration of any sample analyzed during 2002, obvious signs of influence from seawater.

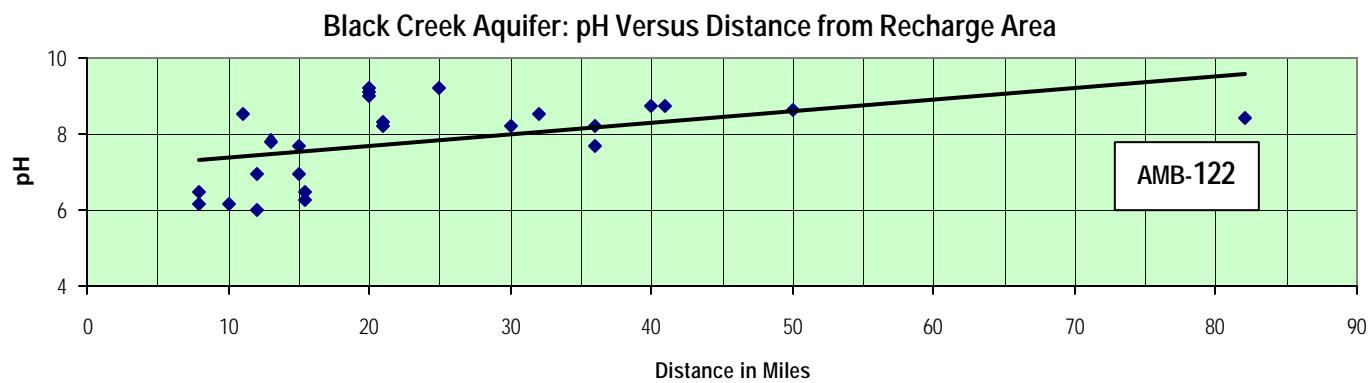


Figure 9: Graph representing the trend of pH in the Black Creek Aquifer relative to the distance from the aquifer's primary recharge area.

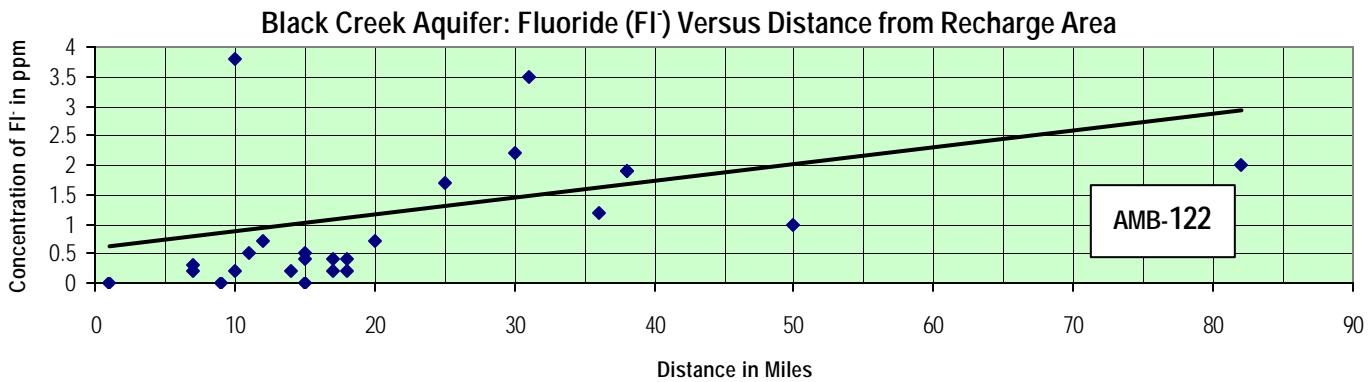


Figure 10: Graph representing the trend of fluoride in the Black Creek Aquifer relative to distance from the aquifer's primary recharge area. The current MCL for fluoride is 4.0 ppm (EPA, 2005).

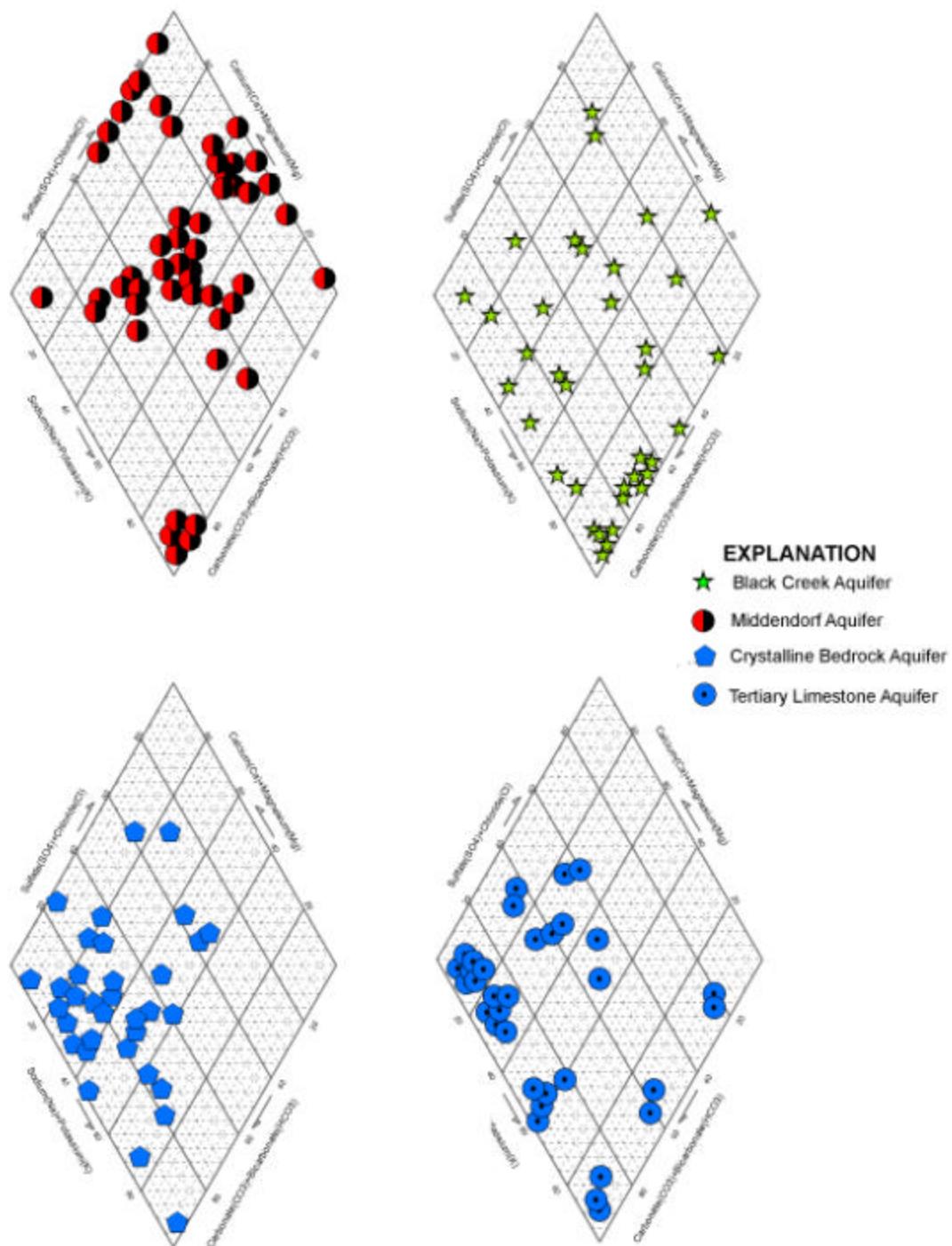


Figure 11: Statewide aquifer-specific water quality trends as determined from the Ambient Groundwater Quality Network between 1987 and 2002.

Pee Dee Aquifer

The Pee Dee Aquifer constitutes a minor water resource in the majority of the study area even though the Pee Dee Formation is present throughout the entire Santee basin. Within the study area the Pee Dee is generally a poor producing aquifer, as grain size and lithology are non-conducive to high yielding wells. Van Nieuwenhuise and Colquhoun (1982) described the lithology of the Pee Dee formation in southern Williamsburg County as consisting of sandy mud and very fine grained muddy sand with hard, indurated beds of calcareous muddy sandstone. Analysis of a core near Charleston averaged 60% sand with the remainder being clay, or silt (Gohn et al., 1977), while near Summerville, the Pee Dee has been described as a silty clay (Gohn et al., 2000), and appears to behave more as a confining unit than an aquifer. North of the study area, in Horry and northern Georgetown counties, the Pee Dee Formation contains a higher percentage composition of coarse-grained sand and the aquifer becomes increasingly utilized for irrigation needs, often in conjunction with the underlying Black Creek.

Water quality of the Pee Dee aquifer in the Santee basin has been documented from few wells completed in the formation. Of those wells, sodium bicarbonate-type water is the dominant species, becoming more saline with proximity to the Atlantic coast (Park, 1985). The single Pee Dee aquifer well (AMB-053) sampled during 2002 for the Ambient Groundwater Quality Network displayed an intermediate composition between calcium and sodium bicarbonate types (see **Figure 5**) and was hard due to an abundance of calcium and magnesium.

Black Mingo Aquifer

The Black Mingo Formation occurs stratigraphically above the Pee Dee Formation, and below the Santee limestone that comprises the Tertiary Limestone Aquifer. The Black Mingo is utilized in much of Berkeley and Dorchester Counties, and wells tapping the formation commonly also utilize the Tertiary Limestone Aquifer for additional capacity. Lithology of the Black Mingo is varied and is composed of several prominent members. Of those, black silty clay (shale), calcite- and silica-cemented sandstone beds, and grey limestone are common (Park, 1985, Van Nieuwenhuise et al. 1982)

As found in other aquifer systems near the coast, water quality varies with depth and/or proximity to sources of saline water. Because of the formation's varied lithology and water quality, Park (1985) recognized five distinct water quality types within the Black Mingo based on analysis of sample data from wells in Charleston, Berkeley, and Dorchester Counties. Those types are plotted on **Figure 12** with corresponding 2002 sample data obtained from the Ambient Groundwater Quality Network. Group I represents wells open predominantly in the sandy beds within the Black Mingo, while Group II represents a carbonate influence either through carbonate cementation of sand grains within a predominantly sandy aquifer, or the presence of limestone (or calcareous fossils) within or adjacent to sandy permeable zones. Group III represents samples from wells open to the limestone member and are dominantly calcium and bicarbonate with little sodic influence. The remaining groups represent the transition from fresh, potable water to marginal potability and increasing salinity (Group IV), to finally saline waters obtained from wells proximal to the coast (Group V).

According to Park's groupings, samples obtained during 2002 reflect a carbonate rock influence and plot within Groups II

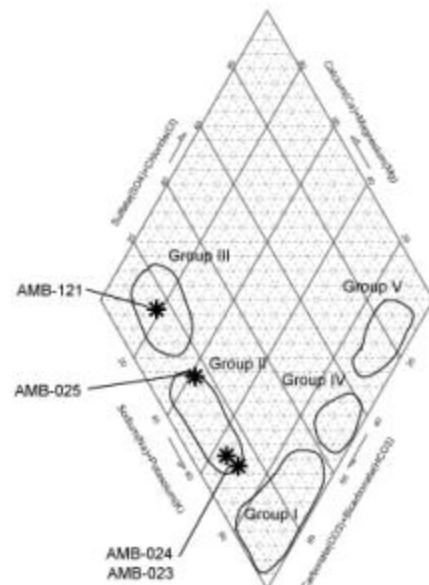


Figure 12: Piper diagram of samples from the Black Mingo Aquifer in the Santee Basin. Groups from Park (1985).

and III representing calcium to sodium bicarbonate-type water with high alkalinity. Of those samples, pH ranged between 6.6 near the recharge area to 8.0 reflecting the buffered bicarbonate nature of the water. Fluoride content in samples ranged between 0.1 ppm and 1.0 ppm, while dissolved silica concentrations in the samples from the Black Mingo Aquifer were high, with three of the four samples exceeding 40 ppm.

Tertiary Limestone Aquifer

Within the study area, the Tertiary Limestone Aquifer (also known as the Floridan Aquifer) is present only in the Santee basin and is utilized primarily in Berkeley, Charleston and Dorchester counties. The Tertiary Limestone Aquifer includes parts of the Cooper Group and the Santee Formation, and is composed of limestone that ranges from white, fossiliferous and pure to impure sandy and clayey varieties. Well yields vary from less than 10 gpm to greater than 400 gpm and are controlled by the occurrence of solution cavities and openings in the limestone. Wells in this aquifer are generally completed as “open holes”, with a solid casing extended down into the top few feet of competent rock and grouted to the surface, often in conjunction with the top of the underlying Black Mingo Formation. Water from the Tertiary Limestone Aquifer can be distinguished from the other noncarbonate aquifers in the state by its high concentration of calcium and bicarbonate ions and basic pH. This elevated ion concentration is also reflected in specific conductance and total dissolved solids (TDS) levels. In wells adjacent to the coast, sodium is the dominant cation, apparently a result of seawater/freshwater mixing. As many wells that are drilled into the Santee limestone also utilize the Black Mingo aquifer (and thus mix aquifer chemistries), no wells in the watershed were located that were open only to the Santee Limestone, thus no samples are taken from this aquifer. What follows is a summary of the typical geochemistry as described in a previous investigation of the Tertiary Limestone Aquifer in the Santee basin.

In describing the water quality of the Tertiary Limestone Aquifer in Berkeley, Charleston, and Dorchester counties, Park (1985) recognized three distinct groups that characterize the water quality of the aquifer system (**Figure 13**). Group I waters are calcium bicarbonate type. Group II waters are less common and are a sodium bicarbonate type that occur to a limited extent in the southern portion of the Santee basin and presumably result from upward leakage of sodium bicarbonate waters from the underlying Black Mingo Formation. Group III represents a transitional stage towards sodium chloride type water that occurs near the coast as either Group I or Group II waters become more brackish under the influence of saline seawater. Results from statewide monitoring of wells completed in the Tertiary Limestone aquifer are presented in **Figure 11**.

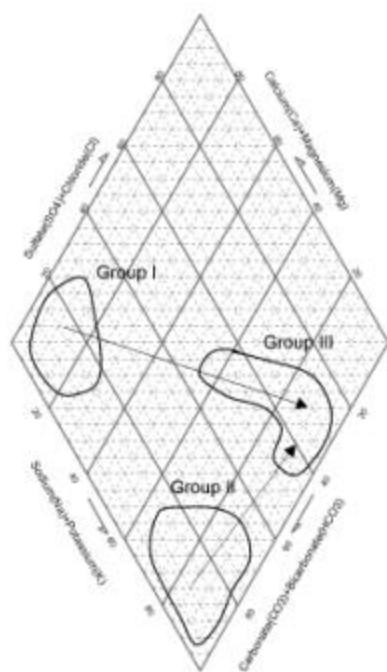


Figure 13: Primary compositional groups from the Tertiary Limestone Aquifer in the Santee Basin. Arrows indicate change in chemistry as a result of the influence of seawater. Modified from Park (1985).

Surficial Aquifer

The Surficial Aquifer is a shallow, lower coastal plain aquifer system that is utilized mainly as a source of private water supply for homes and small industry. The aquifer matrix is composed of sands deposited as dunes, barrier islands, near-shore deltas and submarine bars, and to a lesser extent alluvium adjacent to major rivers during the Pleistocene and Holocene epochs. The aquifer consists mainly of quartz sand with clay and silt lenses and is the water table aquifer over most of its extent. Due to its proximity to both the land surface and the ocean, the water from the Surficial Aquifer is predictably high in dissolved solids and displays elevated levels of sodium, chloride, some sulfur, and a widely varied pH ranging from 6.2 to 8.6. Amounts of dissolved solids are also widely varied, ranging from 80 to 2400 ppm. Water pumped from this aquifer typically has an obvious odor and distinct taste but is still within standards for drinking water, except where it has been influenced by tidal water bodies or contamination. Despite the higher levels of dissolved solids this aquifer is frequently utilized because its shallow nature allows for inexpensive well construction and yields are adequate for domestic use. It should be noted that due to the shallow, unconfined nature of the Surficial aquifer, the system is extremely susceptible to contamination, both natural and man-made. Such sources of contamination include septic tanks, above and underground petroleum storage tanks, brackish water from tidal creeks and wetlands, and other point and non-point sources from roadways, and agricultural and industrial operations.

Summary

An ambient groundwater quality-monitoring network for South Carolina's major aquifers has been outlined and established throughout the state. Network organization includes the consideration of factors such as well selection, sampling intervals and methods, chemical analysis, data management, a network implementation schedule and estimates of overall expenses.

As of the end of 2002, water samples have been collected at 122 wells, representing portions of nine different aquifers. Water quality and chemistry were found to be highly variable among the aquifers, as well as among differing regions of the same aquifer. Chemical results indicate that a general coastward trend of increasingly mineralized groundwater exists. Water from shallow and leached sedimentary units of the upper coastal plain are generally free of significant concentrations of the major ions and, because of a lack of buffering action, are acidic. The data generated from the groundwater-monitoring network provide both a baseline of information to be used in future groundwater investigations, and a better understanding of the chemical nature of one of South Carolina's most essential resources.

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Appendix A: Ambient Groundwater Quality Network Water Quality Parameters

nitrate + nitrite
hardness
chloride
sulfate
TDS
pH
alkalinity
fluoride
TOC
specific conductivity
alu minum
beryllium
boron
cobalt
strontium
mercury
molybdenum
TKN
silica
zinc
calcium
magnesium
sodium
potassium
arsenic
barium
copper
iron
lead
manganese
selenium
silver
tin
uranium
cadmium
chromium
nickel
antimony
lithium

Appendix B: Maximum Contaminant Levels

Maximum Contaminant Levels

The maximum contaminant levels for inorganic chemicals are as follows:

<u>Contaminant</u>	<u>Level (mg/l)</u>
Antimony	0.006
Arsenic	0.05
Barium	2.0
Beryllium	0.004
Cadmium	0.005
Chromium	0.10
Fluoride	4.0
Lead	0.015
Mercury	0.002
Nickel	0.1
Nitrate (as N)	10.0
Nitrite (as N)	1.0
Selenium	0.05

Secondary Maximum Contaminant Levels

The secondary maximum contaminant levels are applicable to both community and non-community water systems. The secondary maximum contaminant levels are as follows:

<u>Contaminant</u>	<u>Level</u>
Aluminum	0.05 to .2 mg/l
Chloride	250 mg/l
Color	15 color units
Copper	1 mg/l
Corrosivity	Noncorrosive
Fluoride	2.0 mg/l
Foaming Agents	0.5 mg/l
Iron	0.3 mg/l
Manganese	0.05 mg/l
Odor	3 threshold odor #
pH	6.5-8.5
Silver	0.10 mg/l
Sulfate	250 mg/l
Total Dissolved Solids (TDS)	500 mg/l
Zinc	5 mg/l

Source: National Primary Drinking Water Regulations – EPA's Drinking Water Standards:
<http://www.epa.gov/safewater/mcl.html>

Appendix C: Ambient Groundwater Quality Wells and Locations

Well No.	Location	County	Well No.	Location	County
1	Bamberg	Bamberg	62	Fork Shoals	Greenville
2	Williston	Barnwell	63	Gilbert	Lexington
3	Ellmoree	Orangeburg	64	Little Mountain	Newberry
4	Bowman	Orangeburg	65	East Cntrl Newberry	Newberry
5	Lake View #1	Dillon	66	Newberry	Newberry
6	Latta #1	Dillon	67	Whitmire	Newberry
7	Johnsionville	Florence	68	Chappells	Newberry
8	McLeod Med Center	Florence	69	Newberry	Newberry
9	Olanta	Florence	70	Mountain Rest	Oconee
10	Pamplico #1	Florence	71	Pickens	Pickens
11	Andrews #2	Georgetown	72	Ballentine	Richland
12	Georgetown #2	Georgetown	73	Union	Union
13	Conway #6	Horry	74	Guthries	York
14	Surfside-Poplar St.	Horry	75	Abbeville	Abbeville
15	Myrtlewood	Horry	76	Starr (deep)	Anderson
16	Longs #2	Horry	77	Blacksburg	Cherokee
17	Mullins-Gapway	Marion	78	Mauldin	Greenville
18	Oakland Plantation	Sumter	79	Fork Shoals	Greenville
19	Watson Correctional	Sumter	80	Newberry	Newberry
20	Kingstree RT 377	Williamsburg	81	Mountain Rest	Oconee
21	St. Stephens	Berkeley	82	Pickens	Pickens
22	Summerville #5	Dorchester	83	Union	Union
23	Cainho High School	Berkeley	84	McClellanville	Charlestown
24	Santee Cooper	Berkeley	85	Edisto Beach (13)	Colleton
25	St. Matthews	Calhoun	86	Bennetts Point	Colleton
26	Wagner	Aiken	87	North Santee	Georgetown
27	North Augusta	Aiken	88	Socastee	Horry
28	Montmorenci-Coucht	Aiken	89	Fairfax	Allendale
29	Parris Island	Beaufort	90	Frogmore	Beaufort
30	Patrick #1	Chesterfield	91	Sheldon	Beaufort
31	Walterboro (50)	Colleton	92	Hilton Head Island	Beaufort
32	Main Street	Darlington	93	Bluffton	Beaufort
33	Hartsville #4	Darlington	94	Walterboro (29)	Colleton
34	Timmonsville #2	Florence	95	Edisto Beach (4)	Colleton
35	S. Ballard Street	Florence	96	Lieber Correctional	Dorchester
36	Elgin	Kershaw	97	Hardeeville	Jasper
37	Bethune	Kershaw	98	Ridgeland	Jasper
38	Camden	Kershaw	99	Grays	Jasper
39	Bishopville #4	Lee	100	Cope	Orangeburg
40	Swansea	Lexington	101	Orng Fish Hatchery(2)	Orangeburg
41	Summit	Lexington	102	Blackville	Barnwell
42	Hidden Valley	Lexington	103	Lex-Oak Grove Elem	Lexington
43	Clio	Marlboro	104	North	Orangeburg
44	Orng Fish Hatchery(1)	Orangeburg	105	Pickney Estates	Sumter
45	Fort Jackson	Richland	106	Hamilton Branch	McCormick
46	Spring Valley	Richland	107	N.W. Edgefield Co.	Edgefield
47	Hopkins	Richland	108	Caesar's Head	Greenville
48	North of Eastover	Richland	109	Spartanburg	Spartanburg
49	Sumter Plant 1 - #3	Sumter	110	Chester State Park	Chester
50	Hemingway	Williamsburg	111	White Bluff Baptist	Lancaster
51	Allendale	Allendale	112	Westside Estates	Chesterfield
52	Eutaw Springs	Orangeburg	113	Amick Poultry	Saluda
53	Moncks Corner	Berkeley	114	WSBH Radio	Hampton
54	Abbeville	Abbeville	115	McCormick	McCormick
55	Starr	Anderson	116	Pelion	Lexington
56	Blacksburg	Cherokee	117	Brattonsville	York
57	Jenkinsville #11	Fairfield	118	Orangeburg Co.	Orangeburg
58	Ridgeway	Fairfield	119	Mt. Pleasant	Charleston
59	Lake Wateree St Pk	Fairfield	121	Elgin	Kershaw
60	Jenkinsville #4	Fairfield	121	McClellanville	Charleston
61	Mauldin	Greenville	122	Hampton State Park	Charleston

Appendix D: Ambient Well Network Water Quality Data

Well	Location	Latitude	Longitude	County	Sub-Basin	Aquifer
AMB-001	City of Bamberg	33.2885222	-81.040775	Bamberg	Sav-Salk	Black Creek
AMB-001	City of Bamberg	33.2885222	-81.040775	Bamberg	Sav-Salk	Black Creek
AMB-001	City of Bamberg	33.2885222	-81.040775	Bamberg	Sav-Salk	Black Creek
AMB-001	City of Bamberg	33.2885222	-81.040775	Bamberg	Sav-Salk	Black Creek
AMB-002	Town of Williston	33.397225	-81.4020056	Barnwell	Saluda-Edisto	Black Creek
AMB-002	Town of Williston	33.397225	-81.4020056	Barnwell	Saluda-Edisto	Black Creek
AMB-002	Town of Williston	33.397225	-81.4020056	Barnwell	Saluda-Edisto	Black Creek
AMB-002	Town of Williston	33.397225	-81.4020056	Barnwell	Saluda-Edisto	Black Creek
AMB-003	Town of Elloree	33.5265861	-80.5715139	Orangeburg	Catawba	Black Creek
AMB-003	Town of Elloree	33.5265861	-80.5715139	Orangeburg	Catawba	Black Creek
AMB-003	Town of Elloree	33.5265861	-80.5715139	Orangeburg	Catawba	Black Creek
AMB-003	Town of Elloree	33.5265861	-80.5715139	Orangeburg	Catawba	Black Creek
AMB-004	Town of Bowman	33.3891806	-80.2710056	Orangeburg	Saluda-Edisto	Black Creek
AMB-004	Town of Bowman	33.3891806	-80.2710056	Orangeburg	Saluda-Edisto	Black Creek
AMB-004	Town of Bowman	33.3891806	-80.2710056	Orangeburg	Saluda-Edisto	Black Creek
AMB-004	Town of Bowman	33.3891806	-80.2710056	Orangeburg	Saluda-Edisto	Black Creek
AMB-005	Town of Lake View	34.3344528	-79.1670417	Dillon	Pee Dee	Black Creek
AMB-006	Town of Latta Well #1	34.335625	-79.4330667	Dillon	Pee Dee	Black Creek
AMB-006	Town of Latta Well #1	34.335625	-79.4330667	Dillon	Pee Dee	Black Creek
AMB-006	Town of Latta Well #1	34.335625	-79.4330667	Dillon	Pee Dee	Black Creek
AMB-007	Town of Johnsonville	33.8158	-79.4633333	Florence	Pee Dee	Black Creek
AMB-007	Town of Johnsonville	33.8158	-79.4633333	Florence	Pee Dee	Black Creek
AMB-007	Town of Johnsonville	33.8158	-79.4633333	Florence	Pee Dee	Black Creek
AMB-008	Mcleod Medical Center	34.335625	-79.4330667	Florence	Pee Dee	Black Creek
AMB-008	Mcleod Medical Center	34.335625	-79.4330667	Florence	Pee Dee	Black Creek
AMB-008	Mcleod Medical Center	34.335625	-79.4330667	Florence	Pee Dee	Black Creek
AMB-009	Town of Olanta	34.3344528	-79.1670417	Florence	Pee Dee	Black Creek
AMB-009	Town of Olanta	34.3344528	-79.1670417	Florence	Pee Dee	Black Creek
AMB-010	Town of Pamplico	34.1977139	-79.7584861	Florence	Pee Dee	Black Creek
AMB-010	Town of Pamplico	34.1977139	-79.7584861	Florence	Pee Dee	Black Creek
AMB-010	Town of Pamplico	34.1977139	-79.7584861	Florence	Pee Dee	Black Creek
AMB-011	City of Andrews	34.1977139	-79.7584861	Georgetown	Pee Dee	Black Creek
AMB-011	City of Andrews	34.1977139	-79.7584861	Georgetown	Pee Dee	Black Creek
AMB-011	City of Andrews	34.1977139	-79.7584861	Georgetown	Pee Dee	Black Creek
AMB-012	Georgetown # 2	33.9333722	-79.9397222	Georgetown	Pee Dee	Black Creek
AMB-012	Georgetown # 2	33.9333722	-79.9397222	Georgetown	Pee Dee	Black Creek
AMB-013	Conway #6	33.995675	-79.5677778	Horry	Pee Dee	Black Creek
AMB-013	Conway #6	33.995675	-79.5677778	Horry	Pee Dee	Black Creek
AMB-013	Conway #6	33.995675	-79.5677778	Horry	Pee Dee	Black Creek
AMB-014	Surfside-Poplar St	33.44105	-79.5619333	Horry	Pee Dee	Black Creek
AMB-014	Surfside-Poplar St	33.44105	-79.5619333	Horry	Pee Dee	Black Creek
AMB-014	Surfside-Poplar St	33.44105	-79.5619333	Horry	Pee Dee	Black Creek
AMB-015	City of Myrtle Beach-MyrtleWood	33.3301528	-79.3104389	Horry	Pee Dee	Black Creek
AMB-015	City of Myrtle Beach-MyrtleWood	33.3301528	-79.3104389	Horry	Pee Dee	Black Creek
AMB-016	Longs #2	33.8512278	-79.0161639	Horry	Pee Dee	Black Creek
AMB-016	Longs #2	33.8512278	-79.0161639	Horry	Pee Dee	Black Creek
AMB-016	Longs #2	33.8512278	-79.0161639	Horry	Pee Dee	Black Creek
AMB-017	Town of Mullins	33.6135028	-78.97815	Marion	Pee Dee	Black Creek
AMB-017	Town of Mullins	33.6135028	-78.97815	Marion	Pee Dee	Black Creek
AMB-017	Town of Mullins	33.6135028	-78.97815	Marion	Pee Dee	Black Creek
AMB-018	Oakland Plantation	33.7265444	-78.8791694	Sumter	Catawba	Black Creek
AMB-018	Oakland Plantation	33.7265444	-78.8791694	Sumter	Catawba	Black Creek
AMB-018	Oakland Plantation	33.7265444	-78.8791694	Sumter	Catawba	Black Creek
AMB-018	Oakland Plantation	33.7265444	-78.8791694	Sumter	Catawba	Black Creek
AMB-019	Wateree Correctional Institute	33.9570667	-78.7375361	Sumter	Catawba	Black Creek
AMB-019	Wateree Correctional Institute	33.9570667	-78.7375361	Sumter	Catawba	Black Creek
AMB-019	Wateree Correctional Institute	33.9570667	-78.7375361	Sumter	Catawba	Black Creek
AMB-019	Wateree Correctional Institute	33.9570667	-78.7375361	Sumter	Catawba	Black Creek
AMB-020	Town of Kingtree	34.1937194	-79.2563111	Williamsburg	Pee Dee	Black Creek
AMB-020	Town of Kingtree	34.1937194	-79.2563111	Williamsburg	Pee Dee	Black Creek
AMB-020	Town of Kingtree	34.1937194	-79.2563111	Williamsburg	Pee Dee	Black Creek
AMB-021	St. Stephens	33.9870833	-80.4954389	Berkeley	Catawba	Black Creek/ Middendorf
AMB-021	St. Stephens	33.9870833	-80.4954389	Berkeley	Catawba	Black Creek/ Middendorf
AMB-021	St. Stephens	33.9870833	-80.4954389	Berkeley	Catawba	Black Creek/ Middendorf
AMB-021	St. Stephens	33.9870833	-80.4954389	Berkeley	Catawba	Black Creek/ Middendorf

Appendix D: Ambient Well Network Water Quality Data

Well	Date	pH	SP_CD	TDS	Hard	TOC	CL_ppm	CL_epm	CL_%-	SO4_ppm	SO4_epm	SO4_%-	ALK_ppm	ALK_epm	ALK_%-
AMB-001	01-Jul-00	6.7	65.4	60	15	<2	1.8	0.05	9.62	9	0.19	36.54	17	0.28	53.85
AMB-001	01-May-98	6.3		60	15	<2	1.4	0.04	10	7	0.15	37.5	13	0.21	52.5
AMB-001	01-May-93	6.3	54	42	10	3.1	1.3	0.04	8.89	10	0.21	46.67	12	0.2	44.44
AMB-001	01-May-88	6.5	53	50	11	<1	2.0	0.06	13.64	<10	0	0	23	0.38	86.36
AMB-002	15-May-01	6.8	114	84		<2	6.2	0.17	15.89	15	0.31	28.97	36	0.59	55.14
AMB-002	01-May-98	6.7		170	32	<2	2.3	0.06	8.33	7	0.15	20.83	31	0.51	70.83
AMB-002	01-May-93	6.3	75	54	32	4.6	1.9	0.05	7.25	10	0.21	30.43	26	0.43	62.32
AMB-002	01-May-88	6.4	74	46	35	<1	2.0	0.06	12.24	<10	0	0	26	0.43	87.76
AMB-003	01-May-02	8.2	123	86	26	<2	1.9	0.05	4.55	9.4	0.2	18.18	52	0.85	77.27
AMB-003	01-May-98	8.4	132	90	26		2.3	0.06	6	8	0.17	17	47	0.77	77
AMB-003	01-May-93	8.2	126	82	27	4.4	1.6	0.05	4.55	10	0.21	19.09	51	0.84	76.36
AMB-003	01-May-88	8.1	121	200	26	<1	2.0	0.06	6.59	<10	0	0	52	0.85	93.41
AMB-004	15-May-01	9.3	141	68		<2	1.6	0.05	3.76	11	0.23	17.29	64	1.05	78.95
AMB-004	01-May-98	9.0	148	88	10	22	2.5	0.07	7.37	9	0.19	20	42	0.69	72.63
AMB-004	01-May-93	9.2	142	90	5	3.5	1.5	0.04	3.15	11	0.23	18.11	61	1	78.74
AMB-004	01-May-88	9.1	140	72	4	<1	2.0	0.06	5.5	<10	0	0	63	1.03	94.5
AMB-005	01-May-89	6.9	151	96	2	<1	2.5	0.07	5.51	<10	0	0	73	1.2	94.49
AMB-006	01-Jul-99	7.0	151	88	18	<2	3.1	0.09	6.43	5	0.1	7.14	74	1.21	86.43
AMB-006	01-Jul-94	6.9	156	99	18	3.3	3.5	0.1	7.52	<5	0	0	75	1.23	92.48
AMB-006	01-May-89	6.9	154	100	17	1.5	2.7	0.08	6.35	<10	0	0	72	1.18	93.65
AMB-007	01-Jul-99	8.8	380	250	4	<2	3.9	0.11	3.46	7	0.15	4.72	178	2.92	91.82
AMB-007	01-Jul-94	9.2	396	240	6	4.8	3.9	0.11	3.36	<5	0	0	193	3.16	96.64
AMB-007	01-May-89	9.2	380	220	4	3.5	3.1	0.09	2.77	11	0.23	7.08	179	2.93	90.15
AMB-008	01-Jul-99	5.9	130	140	37	<2	19.4	0.55	61.11	9	0.19	21.11	10	0.16	17.78
AMB-008	01-Jul-94	5.9	127	110	37	2.4	23.4	0.66	62.26	7	0.15	14.15	15.	0.25	23.58
AMB-008	01-May-89	6.0	161	150	44	<1	30.5	0.86	60.56	12	0.25	17.61	19	0.31	21.83
AMB-009	01-Jul-99	7.5	140	120	34	<2	2.3	0.06	5.04	7	0.15	12.61	60	0.98	82.35
AMB-009	01-Jul-94	7.6	145	100	41	2.2	1.7	0.05	4.2	8	0.17	14.29	59	0.97	81.51
AMB-009	01-May-89	7.6	130	94	40	<1	2.0	0.06	6.06	<10	0	0	57	0.93	93.94
AMB-010	01-Jul-99	8.8	150	130	4	2.8	2.4	0.07	5.51	8	0.17	13.39	63	1.03	81.1
AMB-010	01-Jul-94	8.9	169	120	5	2.5	2.2	0.06	4.2	8.0	0.17	11.89	73	1.2	83.92
AMB-010	01-May-89	8.9	178	130	6	5.5	3.0	0.08	4.73	17	0.35	20.71	77	1.26	74.56
AMB-011	01-Jul-99	8.9	589	350	4	<2	5.8	0.16	3.13	<5	0	0	302	4.95	96.87
AMB-011	01-Jul-94	9.1	598	340	6	6.7	7.2	0.2	3.77	<5	0	0	311	5.1	96.23
AMB-011	01-May-89	8.9	570	350	4	3.2	7.7	0.22	4.28	<10	0	0	300	4.92	95.72
AMB-012	01-Jul-99	8.6	1011	550	7	<2	76.8	2.16	23.87	8	0.17	1.88	410	6.72	74.25
AMB-012	01-Jul-94	8.7	1030	570	7	8.4	77.2	2.17	23.28	7	0.15	1.61	427	7	75.11
AMB-012	01-May-89	8.7	990	550	7	1.0	66.7	1.88	27.25	11	0.23	3.33	292	4.79	69.42
AMB-013	01-Jul-99	8.0	1507	810	53	<2	296	8.34	56.09	13	0.27	1.82	382	6.26	42.1
AMB-013	01-Jul-94	7.6	261	140	26	4.6	19	0.54	45	<5	0	0	40	0.66	55
AMB-013	01-May-89	8.6	1180	670	8	1.5	102	2.87	27.49	<10	0	0	462	7.57	72.51
AMB-014	01-Jul-99	8.7	985	730	8	<2	25.6	0.72	6.84	<5	0	0	598	9.8	93.16
AMB-014	01-Jul-94	8.7	965	550	6	12.1	26.4	0.74	8.31	<5	0	0	498	8.16	91.69
AMB-014	01-May-89	8.8	990	580	6	2.5	25.1	0.71	8.22	<10	0	0	484	7.93	91.78
AMB-015	01-Jul-94	8.1	775	430	77	7.1	85.8	2.42	34.18	27	0.56	7.91	250	4.1	57.91
AMB-015	01-May-89	7.6	261	160	66	8.2	12.9	0.36	16.9	58	1.21	56.81	34	0.56	26.29
AMB-016	01-Jul-99	8.2	2338	1300	51	<2	514	14.48	62.68	59	1.23	5.32	451	7.39	31.99
AMB-016	01-Jul-94	8.3	2360	1300	30	11.3	673	18.96	69.4	26	0.54	1.98	477	7.82	28.62
AMB-016	01-May-89	8.5	1550	870	17	1.7	210	5.92	44.78	18	0.37	2.8	423	6.93	52.42
AMB-017	01-Jul-99	7.3	193	140	15	<2	9.4	0.26	14.86	5	0.1	5.71	85	1.39	79.43
AMB-017	01-Jul-94	7.7	248	180	6	3.1	13.7	0.39	18.66	<5	0	0	104	1.7	81.34
AMB-017	01-May-89	7.7	248	170	6	2.0	12.1	0.34	16.67	<10	0	0	104	1.7	83.33
AMB-018	01-May-02	6.2	66.8	42	14	<2	3.4	0.1	21.74	<5	0	0	22	0.36	78.26
AMB-018	01-Jul-99	4.8	21.5	24	2	<2	2.5	0.07	100	<5	0	0	<1	0	0
AMB-018	01-Jul-94	4.9	24	10	2	2.8	2.6	0.07	70	<5	0	0	2.0	0.03	30
AMB-018	01-May-89	4.1	29	28	3	<1	2.5	0.07	50	<10	0	0	4	0.07	50
AMB-019	01-May-02	7.6	155	100	61	<2	5.4	0.15	12.61	5.6	0.12	10.08	56	0.92	77.31
AMB-019	01-Jul-99	4.2	45.1	28	3	<2	3.2	0.09	42.86	6	0.12	57.14	0	0	0
AMB-019	01-Jul-94	4.3	38	14	2	1.4	2.7	0.08	100	<5	0	0	0	0	0
AMB-019	01-May-89	5.0	42	58	5	<1	4.5	0.13	81.25	<10	0	0	2	0.03	18.75
AMB-020	01-Jul-99	8.8	390	240	6	<2	3.7	0.1	3.09	6	0.12	3.7	184	3.02	93.21
AMB-020	01-Jul-94	8.9	394	230	6	4.8	18.7	0.53	15.06	14	0.29	8.24	165	2.7	76.7
AMB-020	01-May-89	8.3	339	230	6	<1	3.8	0.11	3.29	11	0.23	6.89	183	3	89.82
AMB-021	01-May-02	8.9	586	320	3.9	<2	11	0.31	5.98	5.6	0.12	2.32	290	4.75	91.7
AMB-021	01-Jul-99	8.7	567	340	4	<2	10.8	0.3	5.86	5	0.1	1.95	288	4.72	92.19
AMB-021	01-Jul-94	9.0	578	320	4	7.9	11	0.31	6.16	<5	0	0	288	4.72	93.84
AMB-021	01-May-89	8.3	450	320	4	<1	13.2	0.37	7.74	<10	0	0	269	4.41	92.26

Appendix D: Ambient Well Network Water Quality Data

Well	CA_ppm	CA_epm	CA_%	MG_ppm	MG_epm	MG_%	NA_ppm	NA_epm	K_ppm	K_epm	NA_K%	F_ppm	AS_ppm
AMB-001	4.9	0.24	48.98	0.64	0.05	10.2	1.2	0.05	6	0.15	40.82	<.1	<.005
AMB-001	4.8	0.24	45.28	0.69	0.06	11.32	1.1	0.05	7	0.18	43.4	0.14	<.005
AMB-001	3.2	0.16	39.02	0.55	0.05	12.2	1.2	0.05	6	0.15	48.78	<0.1	<.005
AMB-001	3.4	0.17	62.96	0.57	0.05	18.52	1.1	0.05	<1	0	18.52	0.30	<.005
AMB-002	9.7	0.48	41.38	1	0.08	6.9	13	0.57	1.2	0.03	51.72	<.1	<.005
AMB-002	12	0.6	60	0.56	0.05	5	8	0.35	<1	0	35	0.13	<.005
AMB-002	12	0.6	84.51	0.55	0.05	7.04	1.4	0.06	<1	0	8.45	0.14	<.005
AMB-002	13	0.65	85.53	0.55	0.05	6.58	1.4	0.06	<1	0	7.89	0.20	<.005
AMB-003	8.8	0.44	34.65	0.95	0.08	6.3	13	0.57	7.1	0.18	59.06	0.14	<.005
AMB-003	8.9	0.44	34.11	1	0.08	6.2	13	0.57	8	0.2	59.69		<.005
AMB-003	9.2	0.46	35.66	0.95	0.08	6.2	13	0.57	7	0.18	58.14	0.15	<.005
AMB-003	8.9	0.44	38.94	0.92	0.08	7.08	14	0.61	<1	0	53.98	0.30	<.005
AMB-004	1.6	0.08	5.44	0	0	0	31	1.35	1.4	0.04	94.56	0.12	<.005
AMB-004	1.6	0.08	5.48	<.05	0	0	31	1.35	1	0.03	94.52		<.005
AMB-004	1.7	0.08	5.37	0.09	0.01	0.67	31	1.35	2	0.05	93.96	0.16	<.005
AMB-004	1.6	0.08	5.44	0.06	0	0	32	1.39	<1	0	94.56	0.20	<.005
AMB-005	0.38	0.02	1.37	0.16	0.01	0.68	33	1.43	<1	0	97.95	0.40	<.005
AMB-006	2.5	0.12	7.64	2.8	0.23	14.65	24	1.04	7	0.18	77.71	0.15	<.005
AMB-006	2.4	0.12	7.55	2.80	0.23	14.47	25	1.09	6	0.15	77.99	0.16	<.005
AMB-006	2.6	0.13	9.7	2.60	0.21	15.67	23	1	<1	0	74.63	0.20	<.005
AMB-007	1.3	0.06	1.79	0.24	0.02	0.6	73	3.17	4	0.1	97.61	1.61	<.005
AMB-007	2	0.1	2.5	0.20	0.02	0.5	87	3.78	4	0.1	97	1.39	<.005
AMB-007	1.3	0.06	1.57	0.17	0.01	0.26	86	3.74	<1	0	98.16	1.68	<.005
AMB-008	12	0.6	59.41	1.8	0.15	14.85	4.2	0.18	3	0.08	25.74	0.33	<.005
AMB-008	12	0.6	62.5	1.80	0.15	15.62	3.7	0.16	2	0.05	21.88	0.34	<.005
AMB-008	14	0.7	66.67	2.10	0.17	16.19	4.2	0.18	<1	0	17.14	0.46	<.005
AMB-009	8.7	0.43	37.39	3	0.25	21.74	3.2	0.14	13	0.33	40.87	<.1	<.005
AMB-009	11	0.55	40.74	3.40	0.28	20.74	3.7	0.16	14	0.36	38.52	<0.1	<.005
AMB-009	11	0.55	41.98	3.00	0.25	19.08	3.5	0.15	14	0.36	38.93	0.10	<.005
AMB-010	1.2	0.06	3.47	0.28	0.02	1.16	35	1.52	5	0.13	95.38	0.43	<.005
AMB-010	1.4	0.07	4	0.33	0.03	1.71	35	1.52	5	0.13	94.29	0.49	<.005
AMB-010	1.9	0.09	5.33	0.36	0.03	1.78	36	1.57	<1	0	92.9	0.66	<.005
AMB-011	1.2	0.06	0.9	0.22	0.02	0.3	150	6.52	3	0.08	98.8	1.58	<.005
AMB-011	2	0.1	1.49	0.24	0.02	0.3	150	6.52	3	0.08	98.21	1.52	<.005
AMB-011	1.2	0.06	0.97	0.19	0.02	0.32	140	6.09	<1	0	98.7	1.80	<.005
AMB-012	2	0.1	0.93	0.56	0.05	0.47	240	10.43	6	0.15	98.6	1.01	<.005
AMB-012	1.9	0.09	0.84	0.51	0.04	0.37	240	10.43	5	0.13	98.78	0.9	<.005
AMB-012	2.2	0.11	1.13	0.44	0.04	0.41	220	9.57	<1	0	98.46	0.98	<.005
AMB-013	17	0.85	7.33	2.6	0.21	1.81	240	10.43	4	0.1	90.85	1.63	<.005
AMB-013	8.6	0.43	19.46	1.1	0.09	4.07	37	1.61	3	0.08	76.47	1	<.005
AMB-013	2.1	0.1	0.81	0.62	0.05	0.41	280	12.17	<1	0	98.78	3.40	<.005
AMB-014	2.2	0.11	1.36	0.5	0.04	0.5	180	7.83	3	0.08	98.14	3.46	<.005
AMB-014	1.5	0.07	0.69	0.48	0.04	0.39	230	10	3	0.08	98.92	3.1	<.005
AMB-014	1.6	0.08	0.76	0.54	0.04	0.38	240	10.43	<1	0	98.86	1.80	<.005
AMB-015	26	1.3	16.82	2.90	0.24	3.1	140	6.09	4	0.1	80.08	1.54	<.005
AMB-015	24	1.2	51.72	1.50	0.12	5.17	23	1	<1	0	43.1	1.06	<.005
AMB-016	12	0.6	2.8	5.2	0.43	2.01	460	20	16	0.41	95.2	1.85	<.005
AMB-016	6.2	0.31	1.48	3.60	0.3	1.43	460	20	12	0.31	97.08	1.83	<.005
AMB-016	3.5	0.17	1.11	2.10	0.17	1.11	340	14.78	9	0.23	97.79	3.80	<.005
AMB-017	3.8	0.19	9.55	1.4	0.12	6.03	34	1.48	8	0.2	84.42	0.5	<.005
AMB-017	1.4	0.07	2.65	0.64	0.05	1.89	55	2.39	5	0.13	95.45	0.65	<.005
AMB-017	1.4	0.07	2.99	0.61	0.05	2.14	51	2.22	<1	0	94.87	0.66	<.005
AMB-018	4.8	0.24	57.14	0.44	0.04	9.52	2.2	0.1	1.4	0.04	33.33	<0.1	<.005
AMB-018	0.41	0.02	16.67	0.29	0.02	16.67	1.8	0.08	<1	0	66.67	<.1	<.005
AMB-018	0.42	0.02	13.33	0.30	0.02	13.33	1.8	0.08	1	0.03	73.33	0.10	<.005
AMB-018	0.55	0.03	21.43	0.35	0.03	21.43	1.9	0.08	<1	0	57.14	<0.1	<.005
AMB-019	23.0	1.15	80.42	0.94	0.08	5.59	3.6	0.16	1.4	0.04	13.99	<0.1	<.005
AMB-019	0.37	0.02	10.53	0.44	0.04	21.05	3.1	0.13	<1	0	68.42	<.1	<.005
AMB-019	0.33	0.02	15.38	0.26	0.02	15.38	2	0.09	<1	0	69.23	0.11	<.005
AMB-019	1.1	0.05	20	0.54	0.04	16	3.6	0.16	<1	0	64	<0.1	<.005
AMB-020	2	0.1	2.29	0.37	0.03	0.69	95	4.13	4	0.1	97.02	2.42	<.005
AMB-020	2	0.1	2.54	0.26	0.02	0.51	86	3.74	3	0.08	96.95	1.37	<.005
AMB-020	1.9	0.09	2.28	0.30	0.02	0.51	88	3.83	<1	0	97.21	2.10	<.005
AMB-021	1.3	0.06	0.97	0.16	0.01	0.16	140	6.09	1.3	0.03	98.87	1.4	<.005
AMB-021	1.2	0.06	1.13	0.19	0.02	0.38	120	5.22	1	0.03	98.5	1.52	<.005
AMB-021	1.4	0.07	1.13	0.17	0.01	0.16	140	6.09	1	0.03	98.71	1.25	<.005
AMB-021	1.5	0.07	1.22	0.18	0.01	0.17	130	5.65	<1	0	98.6	1.52	<.005

Appendix D: Ambient Well Network Water Quality Data

Well	BA_ppm	CU_ppm	FE_ppm	PB_ppm	MN_ppm	ZN_ppm	AL_ppm	BE_ppm	B_ppm	CO_ppm	HG_ppm	MO_ppm
AMB-001	0.08	<.01	2.1	<.05	0.04	0.02	<.1	<.003	<.1	<.02	<.0002	<.02
AMB-001	0.08	<.01	1.7	<.05	0.03	<.01	<.1	<.003	<.03	<.02	<.0002	<.02
AMB-001	0.08	<.05	1.3	<.05	0.03	0.01	<.05	<.001	<.05	<.05	<.0002	0.04
AMB-001	<.05	<.05	2.6	<.05	0.06	0.12	<.05	<.001	<.05	<.05	<.0002	<.1
AMB-002	<.05	<.01	0.13	<.05	0.024	0.046	<.1	<.003	<.1	<.02	<.0002	<.02
AMB-002	<.05	<.01	1	<.05	<.01	0.02	<.1	0.004	<.03	<.02	<.0002	<.02
AMB-002	<.05	<.05	<.05	<.05	<.05	<.05	<.05	<.001	<.05	<.05	<.0002	<.02
AMB-002	<.05	<.05	0.29	<.05	<.05	<.05	<.05	<.001	<.05	<.05	<.0002	<.02
AMB-003	<.05	<.01	0.041	<.05	<.01	<.01	<.1	<.003	<.1	<.02	<.0002	<.02
AMB-003	<.05	<.01	0.06	<.05	<.01	<.01	<.1	<.003	0.04	<.02	<.0002	<.02
AMB-003	<.05	<.05	0.08	0.01	0.01	<.05	<.05	<.001	<.05	<.05	<.0002	0.06
AMB-003	<.05	<.05	0.09	<.05	<.05	<.05	<.05	<.001	<.05	<.05	<.0002	<.1
AMB-004	<.05	<.01	<.02	<.05	<.01	<.01	<.1	<.003	<.1	<.02	<.0002	<.02
AMB-004	<.05	0.04	0.08	<.05	<.01	<.01	<.1	<.003	0.06	<.02	<.0002	<.02
AMB-004	<.05	<.05	<.05	<.05	<.05	<.05	<.05	<.001	<.05	<.05	<.0002	<.02
AMB-004	<.05	<.05	<.05	<.05	<.05	<.05	<.05	<.001	<.05	<.05	<.0002	<.02
AMB-005	<.05	<.01	0.42	<.05	0.01	<.01	<.05	<.001	0.08	<.02	<.0002	<.02
AMB-006	0.1	0.01	1	<.05	0.03	<.01	<.1	<.003	<.1	<.02	<.0002	<.02
AMB-006	0.10	0.01	0.86	<.05	0.02	<.01	<.05	<.003	0.06	<.02	<.0002	0.07
AMB-006	0.10	<.01	0.94	<.05	0.02	<.01	<.05	<.001	0.05	<.02	<.0002	<.02
AMB-007	<.05	<.01	<.02	<.05	<.01	<.01	<.1	<.003	0.23	<.02	<.0002	<.02
AMB-007	<.05	<.01	<.02	0.08	<.01	<.01	0.06	<.003	0.22	<.02	<.0002	<.02
AMB-007	<.05	<.01	<.01	<.05	<.01	<.01	<.05	<.001	0.22	<.02	<.0002	<.02
AMB-008	<.05	<.01	4.4	<.05	0.08	<.01	<.1	<.003	<.1	<.02	<.0002	<.02
AMB-008	<.05	<.01	4.60	<.05	0.08	<.01	<.05	<.003	<.03	<.02	<.0002	<.02
AMB-008	0.05	<.01	5.80	<.05	0.10	0.02	<.05	<.001	<.02	<.02	<.0002	<.02
AMB-009	<.05	<.01	0.25	<.05	0.02	<.01	<.1	<.003	<.1	<.02	<.0002	<.02
AMB-009	<.05	<.01	0.25	<.05	0.02	<.01	<.05	<.003	0.04	<.02	<.0002	<.02
AMB-009	<.05	<.01	0.24	<.05	0.02	<.01	<.05	<.001	0.05	<.02	<.0002	<.02
AMB-010	<.05	0.05	0.31	<.05	<.01	0.03	<.1	<.003	<.1	<.02	<.0002	<.02
AMB-010	<.05	0.02	0.08	<.05	<.01	0.02	<.05	<.003	0.10	<.02	<.0002	<.02
AMB-010	<.05	0.06	0.21	<.05	<.01	0.11	<.05	<.001	0.09	<.02	<.0002	<.02
AMB-011	<.05	<.01	<.02	<.05	<.01	<.01	<.1	<.003	1.3	<.02	<.0002	<.02
AMB-011	<.05	<.01	<.01	<.05	<.01	<.01	<.05	<.001	1.2	<.02	<.0002	<.02
AMB-011	<.05	<.01	<.01	<.05	<.01	<.01	<.05	<.001	1.1	<.02	<.0002	<.02
AMB-012	<.05	<.01	<.02	<.05	<.01	<.01	<.1	<.003	0.75	<.02	<.0002	<.02
AMB-012	<.05	<.01	0.03	<.05	<.02	<.01	<.05	<.003	0.65	<.02	<.0002	<.02
AMB-012	<.05	<.01	<.01	<.05	<.01	<.01	<.05	<.001	0.60	<.02	<.0002	<.02
AMB-013	0.08	<.01	1.9	<.05	0.04	0.04	<.1	<.003	2	<.02	<.0002	<.02
AMB-013	<.05	<.01	0.26	0.10	0.03	0.03	0.17	<.003	0.21	<.02	<.0002	<.02
AMB-013	<.05	<.01	0.14	<.05	<.01	<.01	<.05	<.001	0.28	<.02	<.0002	<.02
AMB-014	<.05	<.01	0.19	<.05	<.01	0.03	<.1	<.003	2.1	<.02	<.0002	<.02
AMB-014	<.05	<.01	0.02	<.05	<.01	<.01	<.05	<.003	2.20	<.02	<.0002	0.06
AMB-014	<.05	<.01	0.01	<.05	<.01	<.01	<.05	<.001	2.20	<.02	<.0002	<.02
AMB-015	<.05	<.01	1.40	<.05	0.13	0.03	0.20	<.003	0.38	<.02	<.0002	<.02
AMB-015	<.05	0.01	0.60	<.05	0.04	<.01	0.33	<.001	0.03	<.02	<.0002	<.02
AMB-016	<.05	<.01	0.22	<.05	0.04	0.06	<.1	<.003	3.4	<.02	<.0002	<.02
AMB-016	<.05	<.01	<.03	<.05	<.01	<.01	<.05	<.003	2.90	<.02	<.0002	<.02
AMB-016	<.05	<.01	0.01	<.05	<.01	<.01	<.05	<.001	2.60	<.02	<.0002	<.02
AMB-017	<.05	<.01	0.16	<.05	0.02	0.01	<.1	<.003	0.11	<.02	<.0002	<.02
AMB-017	<.05	<.01	0.06	<.05	0.01	<.01	<.05	<.003	0.18	<.02	<.0002	<.02
AMB-017	<.05	<.01	0.22	<.05	0.01	<.01	<.05	<.001	0.17	<.02	<.0002	<.02
AMB-018	<.06	<.01	1.8	<.05	0.028	0.49	<.1	<.003	<.1	<.02	<.0002	<.02
AMB-018	<.05	0.01	0.4	<.05	<.01	0.02	<.1	<.003	<.1	<.02	<.0002	<.02
AMB-018	<.05	0.02	0.26	<.05	0.01	0.02	<.05	<.003	0.01	<.02	<.0002	<.02
AMB-018	0.05	<.01	0.85	<.05	0.02	0.01	0.09	<.001	<.02	<.02	<.0002	<.02
AMB-019	0.082	0.016	0.097	<.05	0.023	0.016	0.28	<.003	<.1	<.02	<.0002	<.02
AMB-019	<.05	<.01	0.05	<.05	<.01	0.02	220	<.003	<.1	<.02	<.0002	<.02
AMB-019	<.05	0.02	0.02	<.05	0.01	0.08	0.18	<.003	0.01	<.02	<.0002	<.02
AMB-019	0.07	0.01	0.02	<.05	0.01	0.03	0.19	<.001	<.02	<.02	<.0002	<.02
AMB-020	<.05	<.01	<.02	<.05	<.01	<.01	<.1	<.003	0.64	<.02	<.0002	<.02
AMB-020	<.05	<.01	0.03	<.05	<.01	<.01	<.05	<.003	0.47	<.02	<.0002	0.05
AMB-020	<.05	<.01	<.01	<.05	<.01	<.01	<.05	<.001	0.56	<.02	<.0002	<.02
AMB-021	<.05	<.01	<.02	<.05	<.01	<.01	<.1	<.003	1.2	<.02	<.0002	<.02
AMB-021	<.05	<.01	<.02	<.05	<.01	<.01	<.1	<.003	1.2	<.02	<.0002	<.02
AMB-021	<.05	<.01	0.04	<.05	<.01	<.01	<.05	<.003	1.2	<.02	<.0002	0.04
AMB-021	<.05	<.01	<.01	<.05	<.01	<.01	<.05	<.001	<.05	<.02	<.0002	<.02

Appendix D: Ambient Well Network Water Quality Data

Well	SE_ppm	AG_ppm	SN_ppm	U_ppm	CD_ppm	CR_ppm	NI_ppm	LI_ppm	SB_ppm	SI_ppm	SR_ppm	NO3_ppm	TNK_ppm
AMB-001	<.005	<.03	<.5	<.15	<.01	<.01	<.02	0.03	<.05	16	0.04	<.02	ND
AMB-001	<.005	<.03	<.5	0.28	<.01	<.01	<.02	0.03	<.05	16	0.03	<.02	ND
AMB-001	<.005	<.05	<.5	<.15	<.01	<.05	<.05	0.03	<.2		0.03	<.02	0.11
AMB-001	<.005	<.05	<1	<.15	<.01	<.05	<.05	<.05	<.2	15	<.05	<.02	0.15
AMB-002	<.002	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	12	0.03	0.34	
AMB-002	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	14	0.02	<.02	ND
AMB-002	<.005	<.05	<.5	<.15	<.01	<.05	<.05	<.05	<.2		0.02	<.02	ND
AMB-002	<.005	<.05	<.5	<.15	<.01	<.05	<.05	<.05	<.2	14	<.05	<.02	ND
AMB-003	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	20	0.11	<.02	<.1
AMB-003	<.005	<.03	<.5	0.23	<.01	<.01	<.02	<.01	<.05	17	0.11	<.02	ND
AMB-003	<.005	<.05	<.5	<.15	<.01	<.05	<.05	<.05	<.05		1.1	<.02	ND
AMB-003	<.005	<.05	<1	<.05	<.01	<.05	<.05	<.05	<.2	17	0.12	<.02	0.11
AMB-004	<.002	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	14	0.025	<.02	ND
AMB-004	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	14	0.02	<.02	ND
AMB-004	<.005	<.05	<.5	<.15	<.01	<.05	<.05	<.05	<.2		0.03	<.02	0.14
AMB-004	<.005	<.05	<1	<.15	<.01	<.05	<.05	<.05	<.2	14	<.05	<.02	0.15
AMB-005	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	36	0.01	<.02	0.14
AMB-006	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	21	0.04		0.41
AMB-006	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	22	0.04	<.02	1.75
AMB-006	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	20	0.04	<.02	0.28
AMB-007	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	20	0.02	<.02	0.2
AMB-007	<.005	<.03	<.5	<.15	<.01	<.01	0.03	<.01	<.05	23	0.03	<.02	0.7
AMB-007	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	22	0.02	<.02	0.34
AMB-008	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	35	0.06	0.6	ND
AMB-008	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	38	0.06	<.02	0.34
AMB-008	<.005	<.03	<.5	<.15	<.01	<.01	<.02	0.01	<.05	37	0.08	<.02	0.10
AMB-009	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	29	0.1	<.02	0.2
AMB-009	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	39	0.11	<.02	0.13
AMB-009	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	36	0.11	<.02	0.26
AMB-010	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	37	0.01	<.02	0.16
AMB-010	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	39	0.01	<.02	1.5
AMB-010	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	35	0.02	<.02	0.30
AMB-011	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	14	0.03	<.02	0.26
AMB-011	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	14	0.05	<.02	ND
AMB-011	<.005	<.03	<.5	<.15	<.01	<.01	<.02	0.01	<.05	14	0.04	<.02	0.34
AMB-012	<.005	<.03	<.5	<.15	<.01	<.01	<.02	0.02	<.05	14	0.08	<.02	0.39
AMB-012	<.005	<.03	<.5	<.15	<.01	<.01	<.02	0.01	<.05	14	0.08	<.02	0.28
AMB-012	<.005	<.03	<.5	<.15	<.01	<.01	<.02	0.01	<.05	13	0.08	<.02	0.26
AMB-013	<.005	<.03	<.5	<.15	<.01	<.01	<.02	0.02	<.05	9.3	0.19		0.4
AMB-013	<.005	<.03	<.5	<.15	<.01	<.01	0.04	<.01	<.05	9.8	0.05	0.08	0.52
AMB-013	<.005	<.03	<.5	<.15	<.01	<.01	<.02	0.01	<.05	14	0.08	<.02	0.42
AMB-014	<.005	<.03	<.5	<.15	<.01	<.01	<.02	0.01	<.05	13	0.06	<.02	0.36
AMB-014	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	15	0.06	<.02	0.87
AMB-014	<.005	<.03	<.5	<.15	<.01	<.01	<.02	0.01	<.05	16	0.07	<.02	0.38
AMB-015	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	5.8	0.18	<.02	1.01
AMB-015	<.005	<.03	<.5	<.15	<.01	<.01	<.02	0.01	<.05	4.4	0.07	0.59	0.42
AMB-016	<.005	<.03	<.5	<.15	<.01	<.01	<.02	0.03	<.05	12	0.43	<.02	0.9
AMB-016	<.005	<.03	<.5	<.15	<.01	<.01	0.02	0.02	<.05	12	0.34	<.02	0.89
AMB-016	<.005	<.03	<.5	<.15	<.01	<.01	<.02	0.01	<.05	12	0.17	<.02	0.70
AMB-017	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	45	0.07		ND
AMB-017	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	42	0.04	<.02	0.55
AMB-017	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	39	0.04	<.02	0.20
AMB-018	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	12	<.01	0.1	<.2
AMB-018	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	10	<.01	0.21	ND
AMB-018	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	5.3	0.01	0.17	ND
AMB-018	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	11	0.01	0.28	ND
AMB-019	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	10	0.022	1.3	<.1
AMB-019	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	8.9	<.01	0.62	ND
AMB-019	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	4.4	0.01	0.16	ND
AMB-019	<.005	<.03	<.5	<.15	<.01	<.01	<.02	0.01	<.05	9.1	0.01	1.24	ND
AMB-020	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	23	0.04	<.02	0.16
AMB-020	<.005	<.03	<.5	<.15	<.01	<.01	0.02	<.01	<.05	23	0.04	<.02	0.54
AMB-020	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	22	0.04	<.02	0.38
AMB-021	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	16	0.03	<.02	0.14
AMB-021	<.005	<.03	<.5	<.15	<.01	<.01	10	<.02	<.05	13	0.03	<.02	0.11
AMB-021	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	14	0.03	<.02	ND
AMB-021	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	14	0.04	<.02	0.44

Appendix D: Ambient Well Network Water Quality Data

Well	Location	Latitude	Longitude	County	Sub-Basin	Aquifer
AMB-022	Town of Summerville	34.080875	-80.5877028	Dorchester	Catawba	Black Creek/ Middendorf
AMB-022	Town of Summerville	34.080875	-80.5877028	Dorchester	Catawba	Black Creek/ Middendorf
AMB-022	Town of Summerville	34.080875	-80.5877028	Dorchester	Catawba	Black Creek/ Middendorf
AMB-022	Town of Summerville	34.080875	-80.5877028	Dorchester	Catawba	Black Creek/ Middendorf
AMB-023	Cainhoy High School	33.6586111	-79.8192389	Berkeley	Catawba	Black Mingo
AMB-023	Cainhoy High School	33.6586111	-79.8192389	Berkeley	Catawba	Black Mingo
AMB-023	Cainhoy High School	33.6586111	-79.8192389	Berkeley	Catawba	Black Mingo
AMB-023	Cainhoy High School	33.6586111	-79.8192389	Berkeley	Catawba	Black Mingo
AMB-024	Town of Moncks Corner-Santee Cooper	33.4054083	-79.9255833	Berkeley	Catawba	Black Mingo
AMB-024	Town of Moncks Corner-Santee Cooper	33.4054083	-79.9255833	Berkeley	Catawba	Black Mingo
AMB-024	Town of Moncks Corner-Santee Cooper	33.4054083	-79.9255833	Berkeley	Catawba	Black Mingo
AMB-024	Town of Moncks Corner-Santee Cooper	33.4054083	-79.9255833	Berkeley	Catawba	Black Mingo
AMB-025	Town of St. Matthews	32.9838028	-80.2183889	Calhoun	Catawba	Black Mingo
AMB-025	Town of St. Matthews	32.9838028	-80.2183889	Calhoun	Catawba	Black Mingo
AMB-025	Town of St. Matthews	32.9838028	-80.2183889	Calhoun	Catawba	Black Mingo
AMB-025	Town of St. Matthews	32.9838028	-80.2183889	Calhoun	Catawba	Black Mingo
AMB-026	Town of Wagner	33.648725	-81.3557222	Aiken	Saluda-Edisto	Middendorf
AMB-026	Town of Wagner	33.648725	-81.3557222	Aiken	Saluda-Edisto	Middendorf
AMB-027	City of North Augusta	33.51139583	-81.9414444	Aiken	Sav-Salk	Middendorf
AMB-028	Montmorenci Couchton	33.5803194	-81.6751944	Aiken	Saluda-Edisto	Middendorf
AMB-028	Montmorenci Couchton	33.5803194	-81.6751944	Aiken	Saluda-Edisto	Middendorf
AMB-028	Montmorenci Couchton	33.5803194	-81.6751944	Aiken	Saluda-Edisto	Middendorf
AMB-028	Montmorenci Couchton	33.5803194	-81.6751944	Aiken	Saluda-Edisto	Middendorf
AMB-029	Parris Island	33.0210444	-79.8524306	Beaufort	Sav-Salk	Middendorf
AMB-029	Parris Island	33.0210444	-79.8524306	Beaufort	Sav-Salk	Middendorf
AMB-029	Parris Island	33.0210444	-79.8524306	Beaufort	Sav-Salk	Middendorf
AMB-029	Parris Island	33.0210444	-79.8524306	Beaufort	Sav-Salk	Middendorf
AMB-030	Town of Patrick #1	33.2021306	-79.9816778	Chesterfield	Pee Dee	Middendorf
AMB-030	Town of Patrick #1	33.2021306	-79.9816778	Chesterfield	Pee Dee	Middendorf
AMB-030	Town of Patrick #1	33.2021306	-79.9816778	Chesterfield	Pee Dee	Middendorf
AMB-031	City of Walterboro	33.6649222	-80.7743528	Collecton	Sav-Salk	Middendorf
AMB-031	City of Walterboro	33.6649222	-80.7743528	Collecton	Sav-Salk	Middendorf
AMB-031	City of Walterboro	33.6649222	-80.7743528	Collecton	Sav-Salk	Middendorf
AMB-032	City of Darlington-Main St.	32.3298417	-80.7078778	Darlington	Pee Dee	Middendorf
AMB-032	City of Darlington-Main St.	32.3298417	-80.7078778	Darlington	Pee Dee	Middendorf
AMB-032	City of Darlington-Main St.	32.3298417	-80.7078778	Darlington	Pee Dee	Middendorf
AMB-033	City of Hartsville	34.5632861	-80.0312139	Darlington	Pee Dee	Middendorf
AMB-033	City of Hartsville	34.5632861	-80.0312139	Darlington	Pee Dee	Middendorf
AMB-033	City of Hartsville	34.5632861	-80.0312139	Darlington	Pee Dee	Middendorf
AMB-034	Town of Timmonsville	32.9022972	-80.6589889	Florence	Pee Dee	Middendorf
AMB-034	Town of Timmonsville	32.9022972	-80.6589889	Florence	Pee Dee	Middendorf
AMB-034	Town of Timmonsville	32.9022972	-80.6589889	Florence	Pee Dee	Middendorf
AMB-035	City of Florence-S. Ballard St.	34.3074528	-79.8760806	Florence	Pee Dee	Middendorf
AMB-035	City of Florence-S. Ballard St.	34.3074528	-79.8760806	Florence	Pee Dee	Middendorf
AMB-035	City of Florence-S. Ballard St.	34.3074528	-79.8760806	Florence	Pee Dee	Middendorf
AMB-036	City of Elgin	34.3540778	-80.1164333	Kershaw	Catawba	Middendorf
AMB-036	City of Elgin	34.3540778	-80.1164333	Kershaw	Catawba	Middendorf
AMB-037	Town of Bethune	34.1372278	-79.9384611	Kershaw	Pee Dee	Middendorf
AMB-037	Town of Bethune	34.1372278	-79.9384611	Kershaw	Pee Dee	Middendorf
AMB-037	Town of Bethune	34.1372278	-79.9384611	Kershaw	Pee Dee	Middendorf
AMB-038	City of Camden	34.19695	-79.7517833	Kershaw	Catawba	Middendorf
AMB-038	City of Camden	34.19695	-79.7517833	Kershaw	Catawba	Middendorf
AMB-038	City of Camden	34.19695	-79.7517833	Kershaw	Catawba	Middendorf
AMB-039	City of Bishopville	34.175375	-80.7715889	Lee	Pee Dee	Middendorf
AMB-039	City of Bishopville	34.175375	-80.7715889	Lee	Pee Dee	Middendorf
AMB-039	City of Bishopville	34.175375	-80.7715889	Lee	Pee Dee	Middendorf
AMB-040	Town of Swansea	34.3971278	-80.7743528	Lexington	Saluda-Edisto	Middendorf
AMB-040	Town of Swansea	34.3971278	-80.7743528	Lexington	Saluda-Edisto	Middendorf
AMB-040	Town of Swansea	34.3971278	-80.7743528	Lexington	Saluda-Edisto	Middendorf
AMB-040	Town of Swansea	34.3971278	-80.7743528	Lexington	Saluda-Edisto	Middendorf
AMB-041	Town of Summit	34.2112611	-80.5461389	Lexington	Saluda-Edisto	Middendorf
AMB-041	Town of Summit	34.2112611	-80.5461389	Lexington	Saluda-Edisto	Middendorf
AMB-041	Town of Summit	34.2112611	-80.5461389	Lexington	Saluda-Edisto	Middendorf
AMB-041	Town of Summit	34.2112611	-80.5461389	Lexington	Saluda-Edisto	Middendorf
AMB-042	Hidden Valley	34.1961667	-80.2088361	Lexington	Saluda-Edisto	Middendorf
AMB-042	Hidden Valley	34.1961667	-80.2088361	Lexington	Saluda-Edisto	Middendorf
AMB-042	Hidden Valley	34.1961667	-80.2088361	Lexington	Saluda-Edisto	Middendorf

Appendix D: Ambient Well Network Water Quality Data

Well	Date	pH	SP_CD	TDS	Hard	TOC	CL_ppm	CL_epm	CL_%-	SO4_ppm	SO4_epm	SO4_%-	ALK_ppm	ALK_epm	ALK_%-
AMB-022	01-May-02	8.8	938	560	2.6	<2	16	0.45	4.93	7.1	0.15	1.64	520	8.52	93.42
AMB-022	01-Jul-99	8.8	960	590	2	<2	17.1	0.48	5.44	7	0.15	1.7	500	8.2	92.87
AMB-022	01-Jul-94	8.9	983	530	3	8.3	19	0.54	6.18	<5	0	0	500	8.2	93.82
AMB-022	01-May-89	8.5	1050	570	2	1.0	20	0.56	6.39	<10	0	0	500	8.2	93.61
AMB-023	01-May-02	8	538	310	86	<2	22	0.62	13.14	8.1	0.17	3.6	240	3.93	83.26
AMB-023	01-Jul-99	7.8	520	290	110	2.4	17.2	0.48	10.15	7	0.15	3.17	250	4.1	86.68
AMB-023	01-Jul-94	7.9	513	280	110	6.3	19.1	0.54	11.59	7	0.15	3.22	242	3.97	85.19
AMB-023	01-May-89	7.7	483	310	100	1.0	17.8	0.5	10.78	10	0.21	4.53	240	3.93	84.7
AMB-024	01-May-02	7.9	647	360	120	<2	27	0.76	12.36	6.7	0.14	2.28	320	5.25	85.37
AMB-024	01-Jul-99	7.8	628	380	120	<2	26.2	0.74	12.46	7	0.15	2.53	308	5.05	85.02
AMB-024	01-Jul-94	8.1	597	320	130	4.3	26.3	0.74	14.1	<5	0	0	275	4.51	85.9
AMB-024	01-May-89	7.5	480	340	120	1.0	24.6	0.69	12.83	12	0.25	4.65	271	4.44	82.53
AMB-025	01-May-02	6.6	122	76	45	<2	6.1	0.17						34	0.56
AMB-025	01-May-98	7.0	137	86	61	<2	7	0.2	20.2	<5	0	0	48	0.79	79.8
AMB-025	01-May-93	6.8	149	100	64	4.8	9.0	0.25	23.36	<10	0	0	50	0.82	76.64
AMB-025	01-May-88	6.7	132	100	61	<1	8.5	0.24	22.64	<10	0	0	50	0.82	77.36
AMB-026	01-May-93	5.6	15	12	3.0	2	1.4	0.04	36.36	<10	0	0	4	0.07	63.64
AMB-026	01-May-88	5.3	14	20	2.0	<1	1.5	0.04	57.14	<10	0	0	2.0	0.03	42.86
AMB-027	01-May-88	5.5	27	18	5.0	<1	2.5	0.07	58.33	<10	0	0	3	0.05	41.67
AMB-028	15-May-01	5.5	19.2	12		<2	2.1	0.06	75	<5	0	0	1.1	0.02	25
AMB-028	01-May-98	5.4		24	3	<2	1.7	0.05	100	<5	0	0	<1	0	0
AMB-028	01-May-93	5.4	35	24	4.0	1.7	1.8	0.05	50	<10	0	0	3	0.05	50
AMB-028	01-May-88	5.4	21	16	3.0	<1	2.5	0.07	58.33	<10	0	0	3	0.05	41.67
AMB-029	01-Jul-00	9.0	1771	1100	2	3.8	35.3	0.99	5.92	8	0.17	1.02	949	15.56	93.06
AMB-029	01-May-98	8.9	1740	110	3	56	34.8	0.98	5.93	7	0.15	0.91	940	15.41	93.17
AMB-029	01-May-93	8.6	1850	1100	6.0	86	42.1	1.19	10.98	13	0.27	2.49	572	9.38	86.53
AMB-029	01-May-88	8.4	2280	1200	6.0	<1	39.5	1.11		<10	0				
AMB-030	01-Jul-99	5.3	12.6	16	1	<2	1.8	0.05	71.43	<5	0	0	1	0.02	28.57
AMB-030	01-Jul-94	5.1	13	4	1.0	1.5	1.23	0.03	50	<5	0	0	2	0.03	50
AMB-030	01-May-89	5.2	12	12	1.0	<1	1.0	0.03	50	<10	0	0	2	0.03	50
AMB-031	01-Jul-00	8.8	396	240	10	2.3	4	0.11	3.18	8	0.17	4.91	194	3.18	91.91
AMB-031	01-May-93	8.9	388	240	10	9.2	4.7	0.13	3.87	<10	0	0	197	3.23	96.13
AMB-031	01-May-88	9.2	340	240	2.0	<1	2.0	0.06	2.12	<10	0	0	169	2.77	97.88
AMB-032	01-Jul-99	4.9	29.6	28	4		1.7	0.05	26.32	6	0.12	63.16	1	0.02	10.53
AMB-032	01-Jul-94	4.8	31	22	3.0	1.5	<1	0	0	6.0	0.12	85.71	1	0.02	14.29
AMB-032	01-May-89	4.8	32	26	3.0	<1	1.0	0.03	50	<10	0	0	2	0.03	50
AMB-033	01-Jul-99	5.0	14.2	28	2		1.8	0.05	71.43	<5	0	0	1	0.02	28.57
AMB-033	01-Jul-94	7.1	55	29	25	1.5	1.43	0.04	8.89	<5	0	0	25	0.41	91.11
AMB-033	01-May-89	5.9	17	8	3.0	<1	1.5	0.04	33.33	<10	0	0	5	0.08	66.67
AMB-034	01-Jul-99	6.2	52	44	8	<2	2	0.06	14.63	9	0.19	46.34	10	0.16	39.02
AMB-034	01-Jul-94	6.1	51	42	8.0	2.0	1.7	0.05	11.63	8	0.17	39.53	13	0.21	48.84
AMB-034	01-May-89	5.9	51	36	7.0	<1	1.5	0.04	16.67	<10	0	0	12	0.2	83.33
AMB-035	01-Jul-99	8.0	180	140	30	<2	16.4	0.46	25.7	17	0.35	19.55	60	0.98	54.75
AMB-035	01-Jul-94	7.2	170	100	31	1.7	12.5	0.35	24.65	16	0.33	23.24	45	0.74	52.11
AMB-035	01-May-89	6.8	298	150	12	<1	42	1.18	46.83	15	0.31	12.3	63	1.03	40.87
AMB-036	01-Jul-94	5.2	18	4	2.0	2.1	1.4	0.04	57.14	<5	0	0	2	0.03	42.86
AMB-036	01-May-89	4.2	16	34	2.0	<1	1.5	0.04	57.14	<10	0	0	2	0.03	42.86
AMB-037	01-Jul-99	4.7	35.8	24	6		2.8	0.08					<1	0	
AMB-037	01-Jul-94	5.0	36	12	7.0	1.2	2.8	0.08	80	<5	0	0	1	0.02	20
AMB-037	01-May-89	3.9	81	76	21	<1	4.5	0.13	81.25	<10	0	0	2	0.03	18.75
AMB-038	01-Jul-99	4.7	26.3	16	2		3.5	0.1					<1	0	
AMB-038	01-Jul-94	5.1	29	16	2.0	2.0	4.8	0.14	66.67	<5	0	0	4	0.07	33.33
AMB-038	01-May-89	4.0	51	54	7.0	<1	7.5	0.21	91.3	<10	0	0	1	0.02	8.7
AMB-039	01-Jul-99	5.0	12.9	14	1	<2	2.1	0.06	100	<5	0	0	<1	0	0
AMB-039	01-Jul-94	5.1	16	9	2.0	1.4	2.0	0.06	66.67	<5	0	0	2	0.03	33.33
AMB-039	01-May-89	4.8	24	44	6.0	<1	2.0	0.06	37.5	<10	0	0	6	0.1	62.5
AMB-040	15-May-01	5.6	14.5	26		<2	1.9	0.05	62.5	<5	0	0	2	0.03	37.5
AMB-040	01-May-97	5.2	13	<1	2.0	<2	1.3	0.04	100	<5	0	0	<1	0	0
AMB-040	01-Dec-91	7.1	75	42	3.0	2.3	1.9	0.05	7.25	<10	0	0	39	0.64	92.75
AMB-040	01-May-87	5.3	10	10	1.0	<1	1.5	0.04	57.14	<10	0	0	2	0.03	42.86
AMB-041	15-May-01	4.8	43.6	36		<2	3.7	0.1	100	<5	0	0	<1	0	0
AMB-041	01-May-97	4.8	9	7.0	<2	3.1	0.09	100	<5	0	0	<1	0	0	0
AMB-041	01-Dec-91	4.9	30	38	5.0	2.0	3.0	0.08	80	<10	0	0	1	0.02	20
AMB-041	01-May-87	4.9	28	20	4.0	<1	2.5	0.07	77.78	<10	0	0	1	0.02	22.22
AMB-042	15-May-01	5.4	14.2	32		<2	1.7	0.05	100	<5	0	0	<1	0	0
AMB-042	01-May-97	5.3	14	<1	2.0	<2	1.4	0.04	100	<5	0	0	<1	0	0
AMB-042	01-Dec-91	5.3	14	30	2.0		1.6	0.05	16.13	11	0.23	74.19	2	0.03	9.68

Appendix D: Ambient Well Network Water Quality Data

Well	CA_ppm	CA_epm	CA_%	MG_ppm	MG_epm	MG_%	NA_ppm	NA_epm	K_ppm	K_epm	NA_K%	F_ppm	AS_ppm
AMB-022	0.8	0.04	0.38	0.18	0.01	0.09	240	10.43	2.1	0.05	99.53	2.6	<.005
AMB-022	0.73	0.04	0.48	0.18	0.01	0.12	190	8.26	2	0.05	99.4	3.16	<.005
AMB-022	0.74	0.04	0.36	0.16	0.01	0.09	250	10.87	2	0.05	99.54	4.0	<.005
AMB-022	0.73	0.04	0.37	0.11	0.01	0.09	250	10.87	<1	0	99.54	2.80	<.005
AMB-023	13.0	0.65	11.55	13	1.07	19.01	80	3.48	17	0.43	69.45	1	<.005
AMB-023	16	0.8	13.31	17	1.4	23.29	77	3.35	18	0.46	63.39	1.08	<.005
AMB-023	16	0.8	14.44	16	1.32	23.83	70	3.04	15	0.38	61.73	0.94	<.005
AMB-023	16	0.8	14.6	15	1.23	22.45	71	3.09	14	0.36	62.96	1.02	<.005
AMB-024	18.0	0.9	13.24	18	1.48	21.76	90	3.91	20	0.51	65	0.76	<.005
AMB-024	17	0.85	12.88	20	1.65	25	83	3.61	19	0.49	62.12	0.67	<.005
AMB-024	21	1.05	16.43	20	1.65	25.82	75	3.26	17	0.43	57.75	0.70	<.005
AMB-024	20	1	16.56	18	1.48	24.5	72	3.13	17	0.43	58.94	0.98	<.005
AMB-025	17.0	0.85	56.67	0.55	0.05	3.33	13	0.57	1	0.03	40		<.005
AMB-025	23	1.15	82.14	0.91	0.07	5	3.1	0.13	2	0.05	12.86		<.005
AMB-025	24	1.2	81.63	0.93	0.08	5.44	3.6	0.16	1	0.03	12.93	<0.1	<.005
AMB-025	23	1.15	74.19	0.90	0.07	4.52	7.7	0.33	<1	0	21.29	3	<.005
AMB-026	0.84	0.04	40	0.18	0.01	10	1.1	0.05	<1	0	50		<.005
AMB-026	0.36	0.02	25	0.16	0.01	12.5	1.1	0.05	<1	0	62.5	<0.1	<.005
AMB-027	0.98	0.05	25	0.55	0.05	25	2.2	0.1	<1	0	50	<0.1	<.005
AMB-028	0.64	0.03	27.27	0	0	1.8	0.08	<1	0	72.73	<.1	<.005	
AMB-028	0.6	0.03	27.27	0.3	0.02	18.18	1.4	0.06	<1	0	54.55	<0.1	<.005
AMB-028	0.89	0.04	28.57	0.36	0.03	21.43	1.6	0.07	<1	0	50		<.005
AMB-028	0.69	0.03	25	0.30	0.02	16.67	1.7	0.07	<1	0	58.33	<0.1	<.005
AMB-029	0.57	0.03	0.16	0.18	0.01	0.05	440	19.13	4	0.1	99.79		<.005
AMB-029	0.69	0.03	0.1	0.29	0.02	0.06	450	19.57	450	11.51	99.84		<.005
AMB-029	1.5	0.07	0.56	0.46	0.04	0.32	4	0.17	480	12.28	99.12	6.5	<.005
AMB-029	1.5	0.07	0.32	0.43	0.04	0.18	500	21.74	<1	0	99.5	3.90	<.005
AMB-030	0.23	0.01	16.67	0.13	0.01	16.67	1	0.04	<1	0	66.67	<.1	<.005
AMB-030	0.24	0.01	50	0.17	0.01	50	<1	0	<1	0	0	<0.1	<.005
AMB-030	0.21	0.01	50	0.13	0.01	50	<1	0	<1	0	0	<0.1	<.005
AMB-031	2.4	0.12	3.02	1.1	0.09	2.26	82	3.57	8	0.2	94.72	1.01	<.005
AMB-031	2.4	0.12	2.81	0.99	0.08	1.87	89	3.87	8	0.2	95.32	1.04	<.005
AMB-031	0.56	0.03	0.92	<.05	0	0	74	3.22	<1	0	99.08	0.80	<.005
AMB-032	0.71	0.04	22.22	0.43	0.04	22.22	1.7	0.07	1	0.03	55.56	<.1	<.005
AMB-032	0.65	0.03	23.08	0.37	0.03	23.08	1.5	0.07	<1	0	53.85	<0.1	<.005
AMB-032	0.68	0.03	23.08	0.37	0.03	23.08	1.6	0.07	<1	0	53.85	<0.1	<.005
AMB-033	0.52	0.03	27.27	0.19	0.02	18.18	1.3	0.06	<1	0	54.55	<.1	<.005
AMB-033	9.6	0.48	84.21	0.22	0.02	3.51	1.5	0.07	<1	0	12.28	<0.1	<.005
AMB-033	0.92	0.05	50	0.14	0.01	10	1	0.04	<1	0	40	<0.1	<.005
AMB-034	1.4	0.07	17.5	1	0.08	20	2.8	0.12	5	0.13	62.5	<.1	<.005
AMB-034	1.5	0.07	20	1.10	0.09	25.71	2.5	0.11	3	0.08	54.29	<0.1	<.005
AMB-034	1.4	0.07	28	0.96	0.08	32	2.4	0.1	<1	0	40	<0.1	<.005
AMB-035	10	0.5	30.86	1.3	0.11	6.79	21	0.91	4	0.1	62.35	0.98	<.005
AMB-035	9	0.45	28.66	2	0.16	10.19	19	0.83	5	0.13	61.15	0.11	<.005
AMB-035	2.7	0.13	4.98	1.30	0.11	4.21	51	2.22	6	0.15	90.8	0.28	<.005
AMB-036	0.36	0.02	16.67	0.30	0.02	16.67	1.9	0.08	<1	0	66.67	0.11	<.005
AMB-036	0.36	0.02	50	0.30	0.02	50	<1	0	<1	0	0	<0.1	<.005
AMB-037	1.2	0.06	26.09	0.76	0.06	26.09	2.6	0.11	<1	0	47.83	<.1	<.005
AMB-037	1.4	0.07	28	0.94	0.08	32	2.4	0.1	<1	0	40	0.10	<.005
AMB-037	3.8	0.19	40.43	2.70	0.22	46.81	1.4	0.06	<1	0	12.77	<0.1	<.005
AMB-038	0.28	0.01	5.56	0.31	0.03	16.67	3.2	0.14	<1	0	77.78	<.1	<.005
AMB-038	0.53	0.03	15	0.30	0.02	10	3.4	0.15	<1	0	75	0.12	<.005
AMB-038	1.4	0.07	25	0.96	0.08	28.57	3.1	0.13	<1	0	46.43	<0.1	<.005
AMB-039	0.31	0.02	22.22	0.17	0.01	11.11	1.4	0.06	<1	0	66.67	<.1	<.005
AMB-039	0.30	0.01	11.11	0.20	0.02	22.22	1.3	0.06	<1	0	66.67	0.12	<.005
AMB-039	1.9	0.09	47.37	0.21	0.02	10.53	1.9	0.08	<1	0	42.11	0.30	<.005
AMB-040	0.30	0.01	12.5	0	0	1.7	0.07	<1	0	87.5	<.1	<.005	
AMB-040	0.28	0.01	10	0.2	0.02	20	1.5	0.07	<1	0	70	<0.1	<.005
AMB-040	0.97	0.05	9.62	0.17	0.01	1.92	<1	0	18	0.46	88.46		<.005
AMB-040	0.25	0.01	12.5	0.20	0.02	25	1.1	0.05	<1	0	62.5		<.005
AMB-041	1.2	0.06	17.14	2	0.16	45.71	2.1	0.09	1.6	0.04	37.14	<.1	<.005
AMB-041	0.88	0.04	17.39	1.1	0.09	39.13	2.3	0.1	<1	0	43.48	<0.1	<.005
AMB-041	0.66	0.03	15.79	0.79	0.07	36.84	2.1	0.09	<1	0	47.37	<0.1	<.005
AMB-041	0.53	0.03	16.67	0.60	0.05	27.78	2.2	0.1	<1	0	55.56	<0.1	<.005
AMB-042	0.36	0.02	28.57	0	0	0	1.2	0.05	<1	0	71.43	<.1	<.005
AMB-042	0.38	0.02	20	0.25	0.02	20	1.3	0.06	<1	0	60	<0.1	<.005
AMB-042	0.34	0.02	25	0.24	0.02	25	1	0.04	<1	0	50		<.005

Appendix D: Ambient Well Network Water Quality Data

Well	BA_ppm	CU_ppm	FE_ppm	PB_ppm	MN_ppm	ZN_ppm	AL_ppm	BE_ppm	B_ppm	CO_ppm	HG_ppm	MO_ppm
AMB-022	<.05	<.01	<.02	<.05	<.01	<.01	<.05	<.003	1.9	<.02	<.0002	<.02
AMB-022	<.05	<.01	0.1	<.05	0.01	<.01	<.1	<.003	1.9	<.02	<.0002	<.02
AMB-022	<.05	<.01	<.02	<.05	<.01	<.01	<.05	<.003	1.0	<.02	<.0002	<.02
AMB-022	<.05	<.01	<.01	<.05	<.01	<.01	<.05	<.001	1.9	<.02	<.0002	<.02
AMB-023	<.05	<.01	.33	<.05	<.01	0.016	<.05	<.003	0.22	<.02	<.0002	<.02
AMB-023	<.05	0.02	0.03	<.05	<.01	0.02	<.1	<.003	0.19	<.02	<.0002	<.02
AMB-023	<.05	<.01	0.08	<.05	<.01	<.01	<.05	<.003	0.17	<.02	<.0002	<.02
AMB-023	<.05	<.01	0.02	<.05	<.01	<.01	<.05	<.001	0.18	<.02	<.0002	<.02
AMB-024	<.05	<.01	0.25	<.05	<.01	0.011	<.1	<.003	0.2	<.02	<.0002	<.02
AMB-024	<.05	<.01	0.12	<.05	<.01	<.01	<.1	<.003	0.21	<.02	<.0002	<.02
AMB-024	<.05	<.01	0.03	<.05	<.01	<.01	<.05	<.003	0.18	<.02	<.0002	<.02
AMB-024	<.05	<.01	0.03	<.05	<.01	<.01	<.05	<.001	0.18	<.02	<.0002	<.02
AMB-025	<.05	<.01	<.02	<.05	<.01	<.01	<.1	<.003	<.1	<.02	<.0002	<.02
AMB-025	<.05	<.01	<.02	<.05	<.01	<.01	<.1	<.003	<.03	<.02	<.0002	<.02
AMB-025	<.05	<.05	<.05	<.05	<.05	<.05	<.05	<.001	<.05	<.05	<.0002	<.02
AMB-025	<.05	<.05	<.05	<.05	<.05	<.05	<.05	<.001	<.05	<.05	<.0002	<.02
AMB-026			0.03			0.11						
AMB-026	<.05	<.05	<.05	<.05	<.05	<.05	<.05	<.001	<.05	<.05	<.0002	<.02
AMB-027	<.05	<.05	0.09	<.05	<.05	<.05	<.05	<.001	<.05	<.05	<.0002	<.02
AMB-028	<.05	0.018	0.046	<.05	<.01	<.01	<.1	<.003	<.1	<.02	<.0002	<.02
AMB-028	<.05	<.01	<.02	<.05	<.01	<.01	<.1	<.003	<.03	<.02	<.0002	<.02
AMB-028			0.01									
AMB-028	<.05	<.05	0.55	<.05	<.05	<.05	0.11	<.001	<.05	<.05	<.0002	<.02
AMB-029	<.05	<.01	0.1	<.05	<.01	<.01	<.1	<.003	4.2	<.02	<.0002	<.02
AMB-029	<.05	<.01	0.14	<.05	<.01	<.01	<.1	<.003	4.4	<.02	<.0002	<.02
AMB-029	<.05	<.01	0.60	<.05	<.01	<.01	<.05	<.003	4.6	<.02	<.0002	<.02
AMB-029	<.05	<.05	0.11	<.05	<.05	0.11	<.05	<.001	4.20	<.05	<.0002	<.02
AMB-030	<.05	<.01	<.02	<.05	<.01	<.01	<.1	<.003	<.1	<.02	<.0002	<.02
AMB-030	<.05	<.01	<.02	<.05	<.01	<.01	<.05	<.003	<.03	<.02	<.0002	<.02
AMB-030	<.05	0.02	0.01	<.05	<.01	<.01	<.05	<.001	<.02	<.02	<.0002	<.02
AMB-031	<.05	<.01	<.02	<.05	<.01	<.01	<.1	<.003	0.2	<.02	<.0002	<.02
AMB-031	<.05	<.05	<.05	<.05	<.05	<.05	<.05	<.001	0.19	<.05	<.0002	<.02
AMB-031	<.05	<.05	<.05	<.05	<.05	<.05	<.05	<.001	0.41	<.05	<.0002	<.02
AMB-032	<.05	<.01	0.96	<.05	0.02	0.02	<.1	<.003	<.1	<.02	<.0002	<.02
AMB-032	<.05	<.01	0.70	<.05	0.01	0.03	<.05	<.003	<.03	<.02	<.0002	<.02
AMB-032	<.05	<.01	0.81	<.05	0.01	0.03	<.05	<.001	<.02	<.02	<.0002	<.02
AMB-033	<.05	0.03	<.02	<.05	<.01	0.01	<.1	<.003	<.1	<.02	<.0002	<.02
AMB-033	<.05	<.01	<.01	<.05	<.01	<.01	<.05	<.003	<.02	<.02	<.0002	0.03
AMB-033	<.05	0.01	<.01	<.05	<.01	0.03	<.05	<.001	<.02	<.02	<.0002	<.02
AMB-034	<.05	<.01	2.3	<.05	0.02	<.01	<.1	<.003	<.1	<.02	<.0002	<.02
AMB-034	0.06	0.01	2.4	<.05	0.03	0.02	<.05	<.003	<.03	<.02	<.0002	0.07
AMB-034	0.06	<.01	1.80	<.05	0.02	<.01	<.05	<.001	<.02	<.02	<.0002	<.02
AMB-035	0.06	0.04	12	<.05	0.14	0.03	1.4	<.003	<.1	<.02	<.0002	<.02
AMB-035	<.05	<.01	0.03	<.05	<.01	<.01	<.05	<.003	0.05	<.02	<.0002	<.02
AMB-035	0.05	<.01	0.41	<.05	0.02	0.03	<.05	<.001	0.09	<.02	<.0002	<.02
AMB-036	<.05	<.01	0.13	<.05	0.02	0.04	<.05	<.003	<.02	<.02	<.0002	<.02
AMB-036	<.05	<.01	0.01	<.05	<.01	<.04	<.05	<.001	<.02	<.02	<.0002	<.02
AMB-037	<.05	<.01	<.02	<.05	<.01	0.01	<.1	<.003	<.1	<.02	<.0002	<.02
AMB-037	<.05	<.01	<.02	<.05	0.01	0.01	0.04	<.003	<.03	<.02	<.0002	<.02
AMB-037	0.09	<.01	0.01	<.05	0.03	0.01	0.16	<.001	<.02	<.02	<.0002	<.02
AMB-038	<.05	0.02	<.02	<.05	<.01	<.01	<.1	<.003	<.1	<.02	<.0002	<.02
AMB-038	<.05	0.02	0.38	<.05	0.01	0.05	<.05	<.003	<.03	<.02	<.0002	<.02
AMB-038	<.05	0.01	0.24	<.05	0.01	0.04	0.22	<.001	<.02	<.02	<.0002	<.02
AMB-039	<.05	0.02	<.02	<.05	<.01	0.01	<.1	<.003	<.1	<.02	<.0002	<.02
AMB-039	<.05	0.04	<.05	<.01	0.03	<.05	<.05	0.01	<.02	<.02	<.0002	<.02
AMB-039	<.05	0.02	0.01	<.05	<.01	0.02	<.05	<.001	<.02	<.02	<.0002	<.02
AMB-040	<.05	<.01	0.033	<.05	<.01	<.01	<.1	0.0042	<.1	<.02	<.0002	<.02
AMB-040	<.05	<.01	<.02	<.05	<.01	<.01	0.09	<.003	0.22	<.02	<.0002	<.02
AMB-040	0.01	0.06				0.02					<.0002	
AMB-040		<.05	0.11	<.05	<.05							
AMB-041	<.05	0.033	0.094	<.05	<.01	0.024	<.1	<.003	<.1	<.02	<.0002	<.02
AMB-041	<.05	0.01	<.02	<.05	<.01	<.01	0.08	<.003	0.08	<.02	<.0002	<.02
AMB-041	0.02	0.02				0.03			0.03		<.0002	0.03
AMB-041	<.05	<.05	<.05	0.06	<.05							
AMB-042	<.05	0.019	<.02	<.05	<.01	0.015	<.1	<.003	<.1	<.02	<.0002	<.02
AMB-042	<.05	<.01	<.02	<.05	<.01	<.01	0.06	<.003	0.06	<.02	<.0002	<.02
AMB-042	<.05	<.01	0.03			0.06	0.05				<.0002	

Appendix D: Ambient Well Network Water Quality Data

Well	SE_ppm	AG_ppm	SN_ppm	U_ppm	CD_ppm	CR_ppm	NI_ppm	LI_ppm	SB_ppm	SI_ppm	SR_ppm	NO3_ppm	TNK_ppm	
AMB-022	<.005	<.03	<.5	<.15	<.01	<.01	<.02	0.011	<.05	18	0.02	<.03	0.35	
AMB-022	<.005	<.03	<.5	<.15	<.01	<.01	<.02	0.02	<.05	14	0.02	<.02	0.36	
AMB-022	<.005	<.03	<.5	<.15	<.01	<.01	<.02	0.01	<.05	<.03	<.02	<.02	0.22	
AMB-022	<.005	<.03	<.5	<.15	<.01	<.01	<.02	0.01	<.05	16	0.02	<.02	1.22	
AMB-023	<.005	<.03	<.5	<.15	<.01	<.01	<.02	0.013	<.05	39	0.19	0.037	0.21	
AMB-023	<.005	<.03	<.5	<.15	<.01	<.01	<.02	0.02	<.05	34	0.23	0.08	0.53	
AMB-023	<.005	<.03	<.5	<.15	<.01	<.01	<.02	0.01	<.05	36	0.25	<.02	0.49	
AMB-023	<.005	<.03	<.5	<.15	<.01	0.01	<.02	0.01	<.05	34	0.24	<.02	0.62	
AMB-024	<.005	<.03	<.5	<.15	<.01	<.01	<.02	0.016	<.05	43	0.15	<.02	0.37	
AMB-024	<.005	<.03	<.5	<.15	<.01	<.01	<.02	0.02	<.05	38	0.15	<.02	0.33	
AMB-024	<.005	<.03	<.5	<.15	<.01	<.01	<.02	0.02	<.05	0.04	0.20	<.02	0.25	
AMB-024	<.005	<.03	<.5	<.15	<.01	0.01	<.02	0.02	<.05	36	0.20	<.02	1.18	
AMB-025	<.005	<.03	<.5	1.17	<.01	<.01	<.02	<.01	<.05	14	0.015	2.9	<.1	
AMB-025	<.005	<.03	<.5	0.17	<.01	<.01	<.02	<.01	<.05	14	0.02	1.96	ND	
AMB-025	<.005	<.05	<.5	<.15	<.01	<.05	<.05	<.05	<.05		0.02	1.99	ND	
AMB-025	<.005	<.05	<1	<.05	<.01	<.05	<.05	<.05	<.05	<.2	14	<.05	2.20	0.13
AMB-026													ND	
AMB-026	<.005	<.05	<1	<.05	<.01	<.05	<.05	<.05	<.05	7.7	<.05	<.02	ND	
AMB-027	<.005	<.05	<1	<.05	<.01	<.05	<.05	<.05	<.05	5.7	<.05	1.36	ND	
AMB-028	<.002	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	6.8	<.01	0.70		
AMB-028	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	7.3	<.01	0.46	ND	
AMB-028													0.74	
AMB-028	<.005	<.05	<1	<.05	<.01	<.05	<.05	<.05	<.05	6.9	<.05	0.87	ND	
AMB-029	<.005	<.03	<.5	<.15	<.01	<.01	<.02	0.02	<.05	9.1	0.04	<.02	0.71	
AMB-029	<.005	<.03	<.5	<.15	<.01	<.01	<.02	0.03	<.05	1	0.05	<.02	0.86	
AMB-029	<.005	<.03	<.5	<.15	<.01	<.01	<.02	0.03	<.05		0.07	0.02	0.87	
AMB-029	<.005	<.05	<1	<.05	<.01	<.05	<.05	<.05	<.05	19	0.07	<.02	0.73	
AMB-030	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	7.4	<.01	<.02	ND	
AMB-030	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	7.6	<.01	0.09	ND	
AMB-030	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	7.2	<.01	<.02	ND	
AMB-031	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	31	0.05	<.02	0.24	
AMB-031	<.005	<.05	<1	<.15	<.01	<.05	<.05	<.05	<.05		0.05	<.02	0.27	
AMB-031	<.005	<.05	<1	<.05	<.01	<.05	<.05	<.05	<.05	18	<.05	<.02	0.39	
AMB-032	<.005	<.03	<.5	<.15	<.01	<.01	<.02	0.02	<.05	10	<.01	<.02	ND	
AMB-032	<.005	<.03	<.5	<.15	<.01	<.01	<.02	0.02	<.05	11	0.01	<.02	ND	
AMB-032	<.005	<.03	<.5	<.15	<.01	<.01	<.02	0.02	<.05	10	0.01	<.02	0.34	
AMB-033	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	8.7	<.01	10	ND	
AMB-033	<.005	<.03	<.5	<.15	<.01	0.01	<.02	<.01	<.05	8.2	0.01	0.09	ND	
AMB-033	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	8.6	<.01	0.05	ND	
AMB-034	<.005	<.03	<.5	<.15	<.01	<.01	<.02	0.01	<.05	15	0.02	<.02	ND	
AMB-034	<.005	<.03	<.5	<.15	<.01	<.01	<.02	0.01	<.05	16	0.03	0.02	0.22	
AMB-034	<.005	<.03	<.5	<.15	<.01	<.01	<.02	0.01	<.05	15	0.03	<.02	0.12	
AMB-035	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	21	0.05	<.02	ND	
AMB-035	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	21	0.07	<.02	0.69	
AMB-035	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	17	0.07	<.02	0.12	
AMB-036	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	2.6	<.01	1.02	ND	
AMB-036	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	5.5	<.01	0.71	0.12	
AMB-037	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	6	0.01	1.88	ND	
AMB-037	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	3.1	0.01	3.7	ND	
AMB-037	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	5.8	0.04	5.80	ND	
AMB-038	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	5.6	<.01	0.6	ND	
AMB-038	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	2.9	<.01	0.49	ND	
AMB-038	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	6.1	0.01	1.89	0.12	
AMB-039	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	8.2	<.01	0.05	ND	
AMB-039	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	4.3	<.01	<.02	ND	
AMB-039	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	8.4	<.01	<.02	ND	
AMB-040	<.002	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	8.4	<.01	0.021	ND	
AMB-040	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	8.4	<.01	0.021	ND	
AMB-040	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	8.3	<.01	<.02	ND	
AMB-040														
AMB-041	<.002	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	1.6	0.017	2.8		
AMB-041	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	4.9	0.11	1.33	ND	
AMB-041											0.01	1.80		
AMB-041												1.76		
AMB-042	<.002	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	6.4	<.01	0.41	ND	
AMB-042	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	6.1	<.01	0.39	ND	
AMB-042										3.1		0.30	0.33	

Appendix D: Ambient Well Network Water Quality Data

Well	Location	Latitude	Longitude	County	Sub-Basin	Aquifer
AMB-042	Hidden Valley	34.1961667	-80.2088361	Lexington	Saluda-Edisto	Middendorf
AMB-043	Town of Clio	33.7332917	-81.0938167	Marlboro	Pee Dee	Middendorf
AMB-043	Town of Clio	33.7332917	-81.0938167	Marlboro	Pee Dee	Middendorf
AMB-043	Town of Clio	33.7332917	-81.0938167	Marlboro	Pee Dee	Middendorf
AMB-044	Orangeburg Fish Hatchery #1	33.9286778	-81.4191889	Orangeburg	Saluda-Edisto	Middendorf
AMB-044	Orangeburg Fish Hatchery #1	33.9286778	-81.4191889	Orangeburg	Saluda-Edisto	Middendorf
AMB-044	Orangeburg Fish Hatchery #1	33.9286778	-81.4191889	Orangeburg	Saluda-Edisto	Middendorf
AMB-044	Orangeburg Fish Hatchery #1	33.9286778	-81.4191889	Orangeburg	Saluda-Edisto	Middendorf
AMB-045	Fort Jackson-Twin Lakes	33.8347722	-81.1312833	Richland	Saluda-Edisto	Middendorf
AMB-045	Fort Jackson-Twin Lakes	33.8347722	-81.1312833	Richland	Saluda-Edisto	Middendorf
AMB-045	Fort Jackson-Twin Lakes	33.8347722	-81.1312833	Richland	Saluda-Edisto	Middendorf
AMB-045	Fort Jackson-Twin Lakes	33.8347722	-81.1312833	Richland	Saluda-Edisto	Middendorf
AMB-046	Spring Valley	34.5789583	-79.5478	Richland	Saluda-Edisto	Middendorf
AMB-046	Spring Valley	34.5789583	-79.5478	Richland	Saluda-Edisto	Middendorf
AMB-046	Spring Valley	34.5789583	-79.5478	Richland	Saluda-Edisto	Middendorf
AMB-047	Hopkins	33.4685667	-80.8550722	Richland	Saluda-Edisto	Middendorf
AMB-047	Hopkins	33.4685667	-80.8550722	Richland	Saluda-Edisto	Middendorf
AMB-047	Hopkins	33.4685667	-80.8550722	Richland	Saluda-Edisto	Middendorf
AMB-047	Hopkins	33.4685667	-80.8550722	Richland	Saluda-Edisto	Middendorf
AMB-048	North of Eastover	33.9946611	-80.9047556	Richland	Catawba	Middendorf
AMB-048	North of Eastover	33.9946611	-80.9047556	Richland	Catawba	Middendorf
AMB-049	Sumter Plant #1	34.1131583	-80.8801528	Sumter	Pee Dee	Middendorf
AMB-049	Sumter Plant #1	34.1131583	-80.8801528	Sumter	Pee Dee	Middendorf
AMB-049	Sumter Plant #1	34.1131583	-80.8801528	Sumter	Pee Dee	Middendorf
AMB-050	Town of Hemingway	33.9875444	-80.8393056	Williamsburg	Pee Dee	Middendorf
AMB-050	Town of Hemingway	33.9875444	-80.8393056	Williamsburg	Pee Dee	Middendorf
AMB-050	Town of Hemingway	33.9875444	-80.8393056	Williamsburg	Pee Dee	Middendorf
AMB-051	Allendale Industrial Park	32.9820444	-81.2763917	Allendale	Sav-Salk	PeeDee\Black Creek
AMB-051	Allendale Industrial Park	32.9820444	-81.2763917	Allendale	Sav-Salk	PeeDee\Black Creek
AMB-052	Eutaw Springs- Gaillard primary school	33.952	-80.713075	Orangeburg		Pee Dee
AMB-053	Town of Moncks Corner	33.9335417	-80.3461667	Berkeley	Catawba	Pee Dee
AMB-053	Town of Moncks Corner	33.9335417	-80.3461667	Berkeley	Catawba	Pee Dee
AMB-053	Town of Moncks Corner	33.9335417	-80.3461667	Berkeley	Catawba	Pee Dee
AMB-053	Town of Moncks Corner	33.9335417	-80.3461667	Berkeley	Catawba	Pee Dee
AMB-054	Abbeville Deep Well	34.1439222	-82.4035861	Abbeville	Sav-Salk	Piedmont Bedrock Well
AMB-054	Abbeville Deep Well	34.1439222	-82.4035861	Abbeville	Sav-Salk	Piedmont Bedrock Well
AMB-054	Abbeville Deep Well	34.1439222	-82.4035861	Abbeville	Sav-Salk	Piedmont Bedrock Well
AMB-055	Starr Shallow Well	34.3965833	-82.7532778	Anderson	Sav-Salk	Saprolite
AMB-055	Starr Shallow Well	34.3965833	-82.7532778	Anderson	Sav-Salk	Saprolite
AMB-055	Starr Shallow Well	34.3965833	-82.7532778	Anderson	Sav-Salk	Saprolite
AMB-056	Blacksburg-walker	33.7477111	-79.4511417	Cherokee	Broad	Saprolite
AMB-056	Blacksburg-walker	33.7477111	-79.4511417	Cherokee	Broad	Saprolite
AMB-057	Town of Jenkinsville #11	33.3891806	-80.2710056	Fairfield	Broad	Piedmont Bedrock
AMB-057	Town of Jenkinsville #11	33.3891806	-80.2710056	Fairfield	Broad	Piedmont Bedrock
AMB-057	Town of Jenkinsville #11	33.3891806	-80.2710056	Fairfield	Broad	Piedmont Bedrock
AMB-058	Town of Ridgeway	33.1922361	-80.0174944	Fairfield	Catawba	Piedmont Bedrock
AMB-058	Town of Ridgeway	33.1922361	-80.0174944	Fairfield	Catawba	Piedmont Bedrock
AMB-058	Town of Ridgeway	33.1922361	-80.0174944	Fairfield	Catawba	Piedmont Bedrock
AMB-058	Town of Ridgeway	33.1922361	-80.0174944	Fairfield	Catawba	Piedmont Bedrock
AMB-059	Lake Wateree State Park	35.1532222	-81.4396167	Fairfield	Catawba	Piedmont Bedrock
AMB-059	Lake Wateree State Park	35.1532222	-81.4396167	Fairfield	Catawba	Piedmont Bedrock
AMB-059	Lake Wateree State Park	35.1532222	-81.4396167	Fairfield	Catawba	Piedmont Bedrock
AMB-059	Lake Wateree State Park	35.1532222	-81.4396167	Fairfield	Catawba	Piedmont Bedrock
AMB-060	Town of Jenkinsville #4	34.3944028	-81.2921	Fairfield	Broad	Piedmont Bedrock
AMB-060	Town of Jenkinsville #4	34.3944028	-81.2921	Fairfield	Broad	Piedmont Bedrock
AMB-060	Town of Jenkinsville #4	34.3944028	-81.2921	Fairfield	Broad	Piedmont Bedrock
AMB-061	Town of Mauldin	34.3052833	-80.9610556	Greenville	Broad	Saprolite
AMB-062	Fork Shoals	34.3676472	-81.29315	Greenville	Saluda-Edisto	Saprolite-ABANDONED
AMB-062	Fork Shoals	34.3676472	-81.29315	Greenville	Saluda-Edisto	Saprolite-ABANDONED
AMB-063	Town of Gilbert	34.7795722	-82.2184889	Lexington	Saluda-Edisto	Piedmont Bedrock
AMB-063	Town of Gilbert	34.7795722	-82.2184889	Lexington	Saluda-Edisto	Piedmont Bedrock
AMB-063	Town of Gilbert	34.7795722	-82.2184889	Lexington	Saluda-Edisto	Piedmont Bedrock
AMB-064	Town of Little Mountain	34.7797444	-82.2192278	Newberry	Broad	Piedmont Bedrock
AMB-064	Town of Little Mountain	34.7797444	-82.2192278	Newberry	Broad	Piedmont Bedrock
AMB-064	Town of Little Mountain	34.7797444	-82.2192278	Newberry	Broad	Piedmont Bedrock
AMB-065	East Central Newberry County	34.5639889	-82.3274444	Newberry	Broad	Piedmont Bedrock

Appendix D: Ambient Well Network Water Quality Data

Well	Date	pH	SP_CD	TDS	Hard	TOC	CL_ppm	CL_epm	CL_%-	SO4_ppm	SO4_epm	SO4_%-	ALK_ppm	ALK_epm	ALK_%-
AMB-042	01-May-87	5.6	22	28	2.0	1.4	1.5	0.04	11.76	11	0.23	67.65	4	0.07	20.59
AMB-043	01-Jul-99	5.2	44.5	40	6	<2	3.4	0.1	29.41	8	0.17	50	4	0.07	20.59
AMB-043	01-Jul-94	5.9	52	24	6.0	1.8	3.5	0.1	25	7.0	0.15	37.5	9	0.15	37.5
AMB-043	01-May-89	5.5	48	30	6.0	1.4	4.0	0.11	57.89	<10	0	0	5	0.08	42.11
AMB-044	15-May-01	6.3	61.4	28		<2	1.6	0.05	10.87	11	0.23	50	11	0.18	39.13
AMB-044	01-May-98	6.5	59.3	44	10	<2	1.6	0.05	11.9	9	0.19	45.24	11	0.18	42.86
AMB-044	01-May-93	6.0	55	44	8.0	2.5	1.4	0.04	8.89	11	0.23	51.11	11	0.18	40
AMB-044	01-May-88	6.1	58	50	8.0	<1	1.5	0.04	23.53	<10	0	0	8	0.13	76.47
AMB-045	15-May-01	5.4	15.8	34		<2	1.7	0.05	71.43	<5	0	0	1	0.02	28.57
AMB-045	01-May-97	5.2	13	4	2.0	<2	1.2	0.03	60	<5	0	0	1	0.02	40
AMB-045	01-Dec-91	5.3	15	36	2.0	<2	1.6	0.05	13.51	13	0.27	72.97	3	0.05	13.51
AMB-045	01-May-87	6.0	15	0	2.0	1.7	2.5	0.07	21.21	10	0.21	63.64	3	0.05	15.15
AMB-046	01-May-97	5.6	29	14	3.0	<2	1.9	0.05	71.43	<5	0	0	1	0.02	28.57
AMB-046	01-Dec-91	5.6	22	12	2.0	1.5	1.9	0.05	62.5	<10	0	0	2	0.03	37.5
AMB-046	01-May-87	5.7	23	<1	2.0	<1	1.5	0.04	44.44	<10	0	0	3	0.05	55.56
AMB-047	15-May-01	5.2	12.6	32		<2	1.6	0.05	100	<5	0	0	<1	0	0
AMB-047	01-May-97	5.1	11	25	1.0	<2	1.2	0.03	60	<5	0	0	1	0.02	40
AMB-047	01-Dec-91	5.3	13	6	1.0	0.7	1.3	0.04	66.67	<10	0	0	1	0.02	33.33
AMB-047	01-May-87	5.1	10	<1	1.0	<1	1.0	0.03	50	<10	0	0	2	0.03	50
AMB-048	01-Dec-91	5.1	27	50	3.0	1.8	2.0	0.06	15	14	0.29	72.5	3	0.05	12.5
AMB-048	01-May-87	5.5	25	<1	3.0	<1	2.0	0.06	14.63	13	0.27	65.85	5	0.08	19.51
AMB-049	01-Jul-99	5.4	35.2	32	5	<2	2.5	0.07	21.88	7	0.15	46.88	6	0.1	31.25
AMB-049	01-Jul-94	5.7	41	24	6.0	2.5	2.7	0.08	19.51	8	0.17	41.46	10	0.16	39.02
AMB-049	01-May-89	5.6	41	64	5.0	<1	2.5	0.07	35	<10	0	0	8	0.13	65
AMB-050	01-Jul-99	8.6	680	400	4	<2	37.2	1.05	17.16	7	0.15	2.45	300	4.92	80.39
AMB-050	01-Jul-94	8.6	714	400	3.0	7.7	36.6	1.03	16.4	5.7	0.12	1.91	313	5.13	81.69
AMB-050	01-May-89	8.7	690	410	3.0	3.2	31	0.87	14.57	12	0.25	4.19	296	4.85	81.24
AMB-051	01-Jul-00	7.3	116	80	25	<2	2.2	0.06	6	12	0.25	25	42	0.69	69
AMB-051	01-May-88	7.2	117	64	24	<1	2.0	0.06	7.89	<10	0	0	43	0.7	92.11
AMB-052	01-May-88	8.9	160	110	34	<1	3.0	0.08	5.13	<10	0	0	90	1.48	94.87
AMB-053	01-May-02	7.9	512	290	130	<2	21	0.59	13.11	6.5	0.14	3.11	230	3.77	83.78
AMB-053	01-Jul-99	7.6	509	310	140	<2	23.1	0.65	13.18	6	0.12	2.43	254	4.16	84.38
AMB-053	01-Jul-94	7.8	475	250	160	4.2	21.8	0.61	14.7	<5	0	0	216	3.54	85.3
AMB-053	01-May-89	7.8	1300	840	21	1.0	71.2	2.01	15.27	<10	0	0	680	11.15	84.73
AMB-054	01-Jul-00	6.4	71.4	64	20	<2	3	0.08	15.38	<5	0	0	27	0.44	84.62
AMB-054	01-Apr-95	6.4	72	56	19	2.6	2.7	0.08	17.39	<5	0	0	23	0.38	82.61
AMB-054	01-Apr-90	6.6	70	76	22	2.1	2.8	0.08	17.02	<10	0	0	24	0.39	82.98
AMB-055	01-Jul-00	6.3	131	88	36	<2	13.2	0.37	46.25	<5	0	0	26	0.43	53.75
AMB-055	01-Apr-95	6.5	50	42	17	1.8	1.8	0.05	14.29	<5	0	0	18	0.3	85.71
AMB-055	01-Apr-90	6.5	46	48	19	2.9	1.9	0.05	8.77	10	0.21	36.84	19	0.31	54.39
AMB-056	01-Apr-95	6.4	68	44	27	1.9	3.6	0.1	17.86	<5	0	0	28	0.46	82.14
AMB-056	01-Apr-90	6.4	62	34	28	1.6	3.3	0.09	16.98	<10	0	0	27	0.44	83.02
AMB-057	01-May-97	6.3	86	90	17	2.1	3.1	0.09	13.43	7	0.15	22.39	26	0.43	64.18
AMB-057	01-Dec-91	6.4	82	86	17		2.5	0.07	63.64	<10	0	0	2.5	0.04	36.36
AMB-057	01-May-87	6.5	140	96	43	<1	10.5	0.3	23.08	<10	0	0	61	1	76.92
AMB-058	01-May-02	7.7	181	110	67	<2	3.4	0.1	6.41	5.9	0.12	7.69	82	1.34	85.9
AMB-058	01-May-97	7.6	170	130	23	4.2	3.0	0.08	5.41	9	0.19	12.84	74	1.21	81.76
AMB-058	01-Dec-91	7.6	145	110	60		3.2	0.09	7.56	<10	0	0	67	1.1	92.44
AMB-058	01-May-87	6.3	245	<1	100	1.4	21.5	0.61	26.41	13	0.27	11.69	87	1.43	61.9
AMB-059	01-May-02	7	144	120	55	<2	2.6	0.07	5.98	<5	0	0	67	1.1	94.02
AMB-059	01-May-97	6.9	137	95	65	<2	2.4	0.07	7.07	<5	0	0	56	0.92	92.93
AMB-059	01-Dec-91	7.1	153	110	26		2.4	0.07	5.47	<10	0	0	74	1.21	94.53
AMB-059	01-May-87	6.3	120	<1	51	<1	3.0	0.08	6.78	<10	0	0	67	1.1	93.22
AMB-060	01-May-97	6.6	91	80	26	<2	4.7	0.13	27.66	<5	0	0	21	0.34	72.34
AMB-060	01-Dec-91	6.8	104	92	34		4.9	0.14	19.18	<10	0	0	36	0.59	80.82
AMB-060	01-May-87	7.1	103	72	37	<1	4.0	0.11	14.29	<10	0	0	40	0.66	85.71
AMB-061	01-Apr-90	5.2	180	48	9.0	1.1	5.7	0.16	38.1	11	0.23	54.76	2	0.03	7.14
AMB-062	01-Apr-95	6.8	75	66	23	2.7	2.7	0.08	15.38	<5	0	0	27	0.44	84.62
AMB-062	01-Apr-90	6.7	143	62	20	1.4	2.9	0.08	16.33	<10	0	0	25	0.41	83.67
AMB-063	15-May-01	6.9	58.1	34		3.1	2.5	0.07	21.88	<5	0	0	15	0.25	78.12
AMB-063	01-May-97	7.9		110	28	<2	1.6	0.05	5.26	7	0.15	15.79	46	0.75	78.95
AMB-063	01-Dec-91	8.0	110	120	28	2.3	1.4	0.04	3.33	14	0.29	24.17	53	0.87	72.5
AMB-063	01-May-87	8.0	108	92	27	<1	1.5	0.04	3.67	10	0.21	19.27	51	0.84	77.06
AMB-064	01-May-97	6.9	160	130	56	2.5	5.8	0.16	14.04	<5	0	0	60	0.98	85.96
AMB-064	01-Dec-91	6.9		42	7.0	1.9	13.8	0.39	21.67	0	0	0	86	1.41	78.33
AMB-064	01-May-87	6.8	130	84	44	1.1	5.0	0.14	13.21	<10	0	0	56	0.92	86.79
AMB-065	01-May-97	7.3	126	76	44	<2	3.0	0.08	8.89	<5	0	0	50	0.82	91.11

Appendix D: Ambient Well Network Water Quality Data

Well	CA_ppm	CA_epm	CA_%	MG_ppm	MG_epm	MG_%	NA_ppm	NA_epm	K_ppm	K_epm	NA_K%	F_ppm	AS_ppm
AMB-042	0.43	0.02	25	0.20	0.02	25	1	0.04	<1	0	50	<0.1	<.005
AMB-043	1.7	0.08	24.24	0.42	0.03	9.09	3.9	0.17	2	0.05	66.67	<.1	<.005
AMB-043	1.9	0.09	22.5	0.42	0.03	7.5	5.2	0.23	2	0.05	70	<.1	<.005
AMB-043	1.8	0.09	32.14	0.41	0.03	10.71	3.7	0.16	<1	0	57.14	<0.1	<.005
AMB-044	2.6	0.13	26.53	1	0.08	16.33	2.1	0.09	7.5	0.19	57.14	<.1	<.005
AMB-044	2.9	0.14	28	0.76	0.06	12	2.2	0.1	8	0.2	60		<.005
AMB-044	2.2	0.11	26.83	0.59	0.05	12.2	2.2	0.1	6	0.15	60.98	<0.1	<.005
AMB-044	2.2	0.11	42.31	0.56	0.05	19.23	2.2	0.1	<1	0	38.46	<0.1	<.005
AMB-045	0.40	0.02	33.33	0	0	0	1	0.04	<1	0	66.67	<.1	<.005
AMB-045	0.38	0.02	25	0.22	0.02	25	1	0.04	<1	0	50	<0.1	<.005
AMB-045	0.37	0.02	50	0.20	0.02	50	<1	0	<1	0	0	<0.1	<.005
AMB-045	0.42	0.02	22.22	0.24	0.02	22.22	1.1	0.05	<1	0	55.56	<.1	<.005
AMB-046	0.48	0.02	8.33	0.45	0.04	16.67	4.1	0.18	<1	0	75	<.1	<.005
AMB-046	0.32	0.02	11.76	0.32	0.03	17.65	2.8	0.12	<1	0	70.59	0.10	<.005
AMB-046	0.37	0.02	10	0.35	0.03	15	3.4	0.15	<1	0	75	<0.1	<.005
AMB-047	0.26	0.01	20	0	0	0	0.90	0.04	<1	0	80	<.1	<.005
AMB-047	0.27	0.01	50	0.15	0.01	50	<1	0	<1	0	0	<0.1	<.005
AMB-047	0.25	0.01	50	0.14	0.01	50	<1	0	<1	0	0	<0.1	<.005
AMB-047	0.26	0.01	50	0.17	0.01	50	<1	0	<1	0	0	<0.1	<.005
AMB-048	0.30	0.01	6.25	0.56	0.05	31.25	1.1	0.05	2	0.05	62.5	0.15	<.005
AMB-048	0.32	0.02	15.38	0.57	0.05	38.46	1.3	0.06	<1	0	46.15	0.10	<.005
AMB-049	0.86	0.04	16.67	0.65	0.05	20.83	2.4	0.1	2	0.05	62.5	<.1	<.005
AMB-049	1.1	0.05	20	0.77	0.06	24	2.1	0.09	2	0.05	56	0.16	<.005
AMB-049	0.81	0.04	22.22	0.64	0.05	27.78	2	0.09	<1	0	50	<0.1	<.005
AMB-050	1.1	0.05	0.63	0.3	0.02	0.25	180	7.83	2	0.05	99.12	1.82	<.005
AMB-050	1	0.05	0.67	0.24	0.02	0.27	170	7.39	1	0.03	99.07	1.46	<.005
AMB-050	0.97	0.05	0.71	0.21	0.02	0.28	160	6.96	<1	0	99	1.88	<.005
AMB-051	8.1	0.4	37.38	1.1	0.09	8.41	10	0.43	6	0.15	54.21	0.25	<.005
AMB-051	8.1	0.4	40	1.00	0.08	8	12	0.52	<1	0	52	0.30	<.005
AMB-052	11	0.55	29.73	1.60	0.13	7.03	27	1.17	<1	0	63.24	0.20	<.005
AMB-053	26.0	1.3	24.76	17	1.4	26.67	51	2.22	13	0.33	48.57	0.85	<.005
AMB-053	23	1.15	20.65	19	1.56	28.01	57	2.48	15	0.38	51.35	0.87	<.005
AMB-053	31	1.55	30.69	20	1.65	32.67	36	1.57	11	0.28	36.63	0.84	<.005
AMB-053	4.6	0.23	1.45	2.30	0.19	1.2	350	15.22	8	0.2	97.35	1.76	<.005
AMB-054	6.2	0.31	43.06	1.1	0.09	12.5	6.3	0.27	2	0.05	44.44	<.1	<.005
AMB-054	6.1	0.3	47.62	1.0	0.08	12.7	5.7	0.25	<1	0	39.68	<.1	<.005
AMB-054	7	0.35	48.61	1.20	0.1	13.89	6.3	0.27	<1	0	37.5	0.14	<.005
AMB-055	8.1	0.4	38.46	3.8	0.31	29.81	6.5	0.28	2	0.05	31.73	<.1	<.005
AMB-055	4.2	0.21	45.65	1.5	0.12	26.09	2.2	0.1	1.1	0.03	28.26	<0.1	<.005
AMB-055	4.8	0.24	48	1.6	0.13	26	2.3	0.1	1.3	0.03	26	<0.1	<.005
AMB-056	6.3	0.31	48.44	2.7	0.22	34.37	1.2	0.05	2.2	0.06	17.19	<.1	<.005
AMB-056	6.7	0.33	48.53	2.8	0.23	33.82	1.1	0.05	2.7	0.07	17.65	0.18	<.005
AMB-057	5	0.25	30.12	1.2	0.1	12.05	11	0.48	<1	0	57.83	0.14	<.005
AMB-057	4.9	0.24	32	1.1	0.09	12	9.7	0.42	<1	0	56	0.17	<.005
AMB-057	10	0.5	32.05	4.4	0.36	23.08	16	0.7	<1	0	44.87	0.20	<.005
AMB-058	16.0	0.8	43.96	6.6	0.54	29.67	9	0.39	3.6	0.09	26.37	0.14	<.005
AMB-058	6.5	0.32	42.11	1.7	0.14	18.42	7	0.3	<1	0	39.47	0.12	<.005
AMB-058	14	0.7	42.68	6	0.49	29.88	8.6	0.37	3.1	0.08	27.44	0.15	<.005
AMB-058	25	1.25	49.02	10	0.82	32.16	11	0.48	<1	0	18.82	<.1	<.005
AMB-059	17.0	0.85	57.43	3	0.25	16.89	8.1	0.35	1.2	0.03	25.68	0.49	<.005
AMB-059	15	0.75	42.37	6.6	0.54	30.51	9.1	0.4	3	0.08	27.12	0.21	<.005
AMB-059	7.4	0.37	45.68	1.8	0.15	18.52	6.7	0.29	<1	0	35.8	0.28	<.005
AMB-059	16	0.8	57.55	2.8	0.23	16.55	8.3	0.36	<1	0	25.9	0.50	<.005
AMB-060	6.1	0.3	33.71	2.5	0.21	23.6	7.7	0.33	2	0.05	42.7	0.27	<.005
AMB-060	8.5	0.42	41.18	3	0.25	24.51	7.2	0.31	1.5	0.04	34.31	0.43	<.005
AMB-060	9.6	0.48	44.86	3.1	0.26	24.3	7.7	0.33	<1	0	30.84	0.50	<.005
AMB-061	2.9	0.14	31.82	0.34	0.03	6.82	5.5	0.24	1.2	0.03	61.36	<0.1	<.005
AMB-062	8.4	0.42	58.33	0.5	0.04	5.56	4.9	0.21	2	0.05	36.11	<.1	<.005
AMB-062	7	0.35	54.69	0.61	0.05	7.81	4.7	0.2	1.5	0.04	37.5	0.20	<.005
AMB-063	1.2	0.06	10.53	1	0.08	14.04	8.8	0.38	1.8	0.05	75.44	<.1	<.005
AMB-063	8.1	0.4	33.33	1.8	0.15	12.5	13	0.57	3	0.08	54.17	0.57	<.005
AMB-063	8	0.4	35.4	1.9	0.16	14.16	12	0.52	2	0.05	50.44	0.56	<.005
AMB-063	7.7	0.38	34.55	1.8	0.15	13.64	13	0.57	<1	0	51.82	0.60	<.005
AMB-064	13	0.65	41.67	5.6	0.46	29.49	9.7	0.42	1	0.03	28.85	<0.1	<.005
AMB-064	40.1	2	44.64	28.5	2.35	52.46	1.2	0.05	3.1	0.08	2.9		<.005
AMB-064	10	0.5	38.17	4.6	0.38	29.01	10	0.43	<1	0	32.82	<0.1	<.005
AMB-065	14	0.7	53.85	2.2	0.18	13.85	8.4	0.37	2	0.05	32.31	0.17	<.005

Appendix D: Ambient Well Network Water Quality Data

Well	BA_ppm	CU_ppm	FE_ppm	PB_ppm	MN_ppm	ZN_ppm	AL_ppm	BE_ppm	B_ppm	CO_ppm	HG_ppm	MO_ppm
AMB-042		<.05	0.06	<.05	<.05							
AMB-043	<.05	<.01	0.49	<.05	0.02	0.03	<.1	<.003	<.1	<.02	<.0002	.20
AMB-043	<.05	<.01	0.40	<.05	0.02	0.01	<.05	<.003	<.03	<.02	<.0002	<.02
AMB-043	<.05	0.01	0.35	<.05	0.02	0.02	<.05	<.003	<.02	<.02	<.0002	<.02
AMB-044	0.088	<.01	1.2	<.05	0.03	<.01	<.1	<.003	<.1	<.02	<.0002	<.02
AMB-044	0.09	<.01	1.5	<.05	0.04	<.01	<.1	<.003	<.03	<.02	<.0002	<.02
AMB-044	0.08	<.05	1.2	<.05	0.03	<.05	<.05	<.001	<.05	<.02		
AMB-044	<.05	<.05	0.98	<.05	<.05	<.05	<.05	<.001	<.05	<.05	<.0002	<.02
AMB-045	<.05	0.021	0.35	<.05	<.01	<.01	<.1	<.003	<.1	<.02	<.0002	<.02
AMB-045	<.05	<.01	0.17	<.05	<.01	<.01	<.05	<.003	<.03	<.02	<.0002	<.02
AMB-045	<.05	0.03	0.09	<.05	<.01	0.17	0.09				<.0002	
AMB-045	0.09	0.15	<.05	<.05								
AMB-046	<.05	<.01	<.02	<.05	<.01	<.01	0.06	<.003	0.13	<.02	<.0002	<.02
AMB-046		0.01				<.01			0.03		<.0002	
AMB-046		<.05	<.05	<.05								
AMB-047	<.05	<.01	<.02	<.05	<.01	<.01	<.1	<.003	<.1	<.02	<.0002	<.02
AMB-047	<.05	<.01	<.02	<.05	<.01	<.01	<.05	<.003	<.03	<.02	<.0002	<.02
AMB-047	0.01	<.05	<.05	<.05	<.01						<.0002	
AMB-047	<.05	<.05	<.05	<.05								
AMB-048	0.05		1.9		0.02	0.47	0.09				<.0002	
AMB-048		<.05	1.8	<.05	<.05							
AMB-049	<.05	<.01	2.9	<.05	0.04	0.02	<.1	<.003	<.1	<.02	<.0002	<.02
AMB-049	0.07	<.01	3.30	<.05	0.05	0.02	<.05	<.003	<.03	<.02	<.0002	<.02
AMB-049	0.07	<.01	3.20	<.05	0.04	0.02	<.05	0.00	<.02	<.02	<.0002	<.02
AMB-050	0.06	<.01	<.02	<.05	<.01	<.01	<.1	<.003	2	<.02	<.0002	<.02
AMB-050	<.05	<.01	<.02	<.05	<.01	<.01	<.05	<.003	1.80	<.02	<.0002	<.02
AMB-050	<.05	<.01	0.06	<.05	<.01	<.01	<.05	<.001	1.70	<.02	<.0002	<.02
AMB-051	0.06	<.01	0.56	<.05	0.01	<.01	<.1	<.003	<.1	<.02	<.0002	<.02
AMB-051	<.05	<.05	1.1	<.05	<.05	<.05	<.05	<.001	<.05	<.05	<.0002	<.02
AMB-052	<.05	<.05	0.13	<.05	<.05	1.70	<.05	<.001	0.07	<.05	<.0002	<.02
AMB-053	<.05	<.01	0.082	<.05	<.01	<.01	<.1	<.003	0.13	<.02	<.0002	<.02
AMB-053	<.05	<.01	0.08	<.05	<.01	<.01	<.1	<.003	0.15	<.02	<.0002	<.02
AMB-053	<.05	<.01	<.02	<.05	<.01	<.01	<.05	<.003	0.10	<.02	<.0002	<.02
AMB-053	<.05	<.01	<.01	<.05	<.01	<.01	<.05	<.001	2.50	<.02	<.0002	<.02
AMB-054	<.05	<.01	<.02	<.05	<.01	<.01	<.1	<.003	<.1	<.02	<.0002	<.02
AMB-054	<.05	<.01	<.02	<.01	<.01	<.05	<.05	<.003	<.02	<.02	<.0002	<.02
AMB-054	<.05	<.01	<.01	<.05	0.01	0.01	<.05	<.001	0.02	<.02	<.0002	<.02
AMB-055	0.07	0.02	1.8	<.05	<.01	0.16	<.1	<.003	<.1	<.02	<.0002	<.02
AMB-055	<.05	0.02	0.06	<.05	<.01	<.01	0.13	<.003	<.03	<.02	<.0002	<.02
AMB-055	<.05	0.04	0.06	<.05	0.01	0.01	0.15	<.001	0.05	<.02	<.0002	<.02
AMB-056	<.05	<.01	0.02	<.05	<.01	0.03	<.05	<.003	<.05	<.02	<.0002	<.02
AMB-056	<.05	<.01	0.01	<.05	<.01	0.04	<.05	<.001	<.02	<.02	<.0002	<.02
AMB-057	<.05	<.01	0.06	<.05	<.01	<.01	0.06	<.003	0.91	<.02	<.0002	<.02
AMB-057	<.05	0.01	<.05	<.05	<.05	0.14	<.05	<.001	<.05		<.0002	
AMB-057	<.05	<.05	0.14	<.05	<.05	<.01	<.05	<.001	<.05			
AMB-058	<.05	<.01	0.028	<.05	0.011	0.012	<.05	<.003	<.1	<.02	<.0002	<.02
AMB-058	<.05	<.01	0.03	<.05	<.01	0.03	<.05	<.003	<.03	<.02	<.0002	<.02
AMB-058	<.05	<.05	<.05	<.05	<.05	0.02	<.05	<.001	<.02		<.0002	
AMB-058	<.05	<.05	<.05	<.05	<.05	<.01	<.05	<.001	<.02			
AMB-059	<.05	<.01	<.02	<.05	0.03	0.016	<.05	<.003	<.1	<.02	<.0002	<.02
AMB-059	<.05	<.01	<.02	<.05	<.01	<.01	<.05	<.003	<.03	<.02	<.0002	<.02
AMB-059	<.05	<.05	<.05	<.05	<.05	0.32	<.05	<.001	<.02		<.0002	
AMB-059	<.05	<.05	<.05	<.05	<.05	<.01	<.05	<.001	<.02			
AMB-060	<.05	<.01	0.24	<.05	<.01	<.01	0.09	<.003	0.12	<.02	<.0002	<.02
AMB-060	<.05	<.05	<.05	<.05	<.05	<.05	<.05	<.001	<.05		<.0002	
AMB-060	<.05	<.05	<.05	<.05	<.05	<.01	<.01	<.001	<.05			
AMB-061	<.05	0.08	1.20	<.05	0.02	0.21	0.45	<.001	<.02	<.02	<.0002	<.02
AMB-062	<.05	<.01	<.02	<.05	<.01	<.01	<.05	<.003	<.03	<.02	<.0002	<.02
AMB-062	<.05	<.01	0.02	<.05	<.01	<.01	<.05	<.001	<.02	<.02	<.0002	<.02
AMB-063	<.05	<.01	<.02	<.05	<.01	<.01	<.1	<.003	<.1	<.02	<.0002	<.02
AMB-063	<.05	<.01	<.02	<.05	0.08	0.07	0.06	<.003	0.12	<.02	<.0002	<.02
AMB-063	<.05	<.05	<.05	<.05	0.07	0.07	<.05	<.001	<.02		<.0002	
AMB-063	<.05	<.05	<.05	<.05	0.07	<.01	<.05	<.001	<.02			
AMB-064	<.05	<.01	<.02	<.05	<.01	0.02	<.05	<.003	<.03	<.02	<.0002	<.02
AMB-064	<.05	<.05	<.05	<.05	0.02	<.05	<.001	<.02			<.0002	
AMB-064	<.05	<.05	<.05	<.05	<.05	<.01	<.05	<.001	<.02			
AMB-065	<.05	<.01	<.02	<.05	<.01	0.4	0.07	<.003	0.08	<.02	<.0002	<.02

Appendix D: Ambient Well Network Water Quality Data

Well	SE_ppm	AG_ppm	SN_ppm	U_ppm	CD_ppm	CR_ppm	NI_ppm	LI_ppm	SB_ppm	SI_ppm	SR_ppm	NO3_ppm	TNK_ppm
AMB-042					<.01	<.05							0.38
AMB-043	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	12	0.02	<.02	ND
AMB-043	<.005	<.03	<.5	<.15	<.01	<.01	<.02	0.01	<.05	14	0.01	0.14	ND
AMB-043	<.005	<.03	<.5	<.15	<.01	<.01	<.02	0.01	<.05	12	0.02	0.24	ND
AMB-044	<.002	<.03	<.5	<.15	<.01	<.01	<.02	0.032	<.05	21	0.040	<.02	ND
AMB-044	<.005	<.03	<.5	180	<.01	<.01	<.02	0.02	<.05	16	0.04	0.02	ND
AMB-044								0.03					
AMB-044	<.005	<.05	<1	<.05	<.01	<.05	<.05	<.05	<.02	17	<.05	<.02	0.13
AMB-045	<.002	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	6.5	<.01	0.35	0.13
AMB-045	<.005	<.03	<.5	<.15	<.01	<.05	<.02	<.01	<.05	6.3	<.01	0.36	ND
AMB-045					<.01	<.05				3.6		0.17	0.18
AMB-045					<.01	<.05						0.36	
AMB-046	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	4.7	<.01	1.55	0.12
AMB-046												1.03	
AMB-046					<.01	<.05						1.34	
AMB-047	<.002	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	7.7	<.01	0.21	0.15
AMB-047	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	7.3	<.01	0.20	ND
AMB-047												0.16	
AMB-047					<.01	<.05						0.22	
AMB-048								0.02				0.01	0.02
AMB-048					<.01	<.05						0.03	
AMB-049	<.005	<.03	<.5	<.15	<.01	<.01	<.02	0.03	<.05	12	0.01	<.02	ND
AMB-049	<.005	<.03	<.5	<.15	<.01	<.01	<.02	0.03	<.05	6.2	0.01	0.02	ND
AMB-049	<.005	<.03	<.5	<.15	<.01	<.01	<.02	0.03	<.05	16	0.01	0.03	0.14
AMB-050	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	14	0.03	<.02	0.22
AMB-050	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	13	0.03	<.02	0.7
AMB-050	<.005	<.03	<.5	<.15	<.01	<.01	<.02	0.01	<.05	15	0.03	0.28	0.18
AMB-051	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	14	0.06	<.02	ND
AMB-051	<.005	<.05	<1	<.05	<.01	<.05	<.05	<.05	<.02	13	0.06	<.02	0.17
AMB-052	<.005	<.05	<1	0.07	<.01	<.05	<.05	<.05	<.02	11	0.07	0.18	0.15
AMB-053	<.002	<.03	<.5	<.15	<.01	<.01	<.02	0.012	<.05	39	0.25	<.02	0.45
AMB-053	<.005	<.03	<.5	<.15	<.01	<.01	<.02	0.02	<.05	34	0.25	4.4	0.29
AMB-053	<.005	<.03	<.5	<.15	<.01	<.01	<.02	0.01	<.05	0.04	0.36	<.02	0.17
AMB-053	<.005	<.03	<.5	<.15	<.01	<.01	<.02	0.03	<.05	19	0.18	0.02	0.52
AMB-054	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	25	0.03	1.79	ND
AMB-054	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	23	0.02	2	0.01
AMB-054	<.005	<.03	<.5	<.17	<.01	<.01	<.02	0.01	<.05	28	0.02	1.54	0.17
AMB-055	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	13	0.05	2.4	0.51
AMB-055	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	17	0.02	0.86	ND
AMB-055	<.005	<.03	<.5	<.17	<.01	0.01	<.02	0.01	<.05	17	0.02	0.68	0.14
AMB-056	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	34	0.01	0.43	ND
AMB-056	<.005	<.03	<.5	<.17	<.01	<.01	<.02	<.01	<.05	12	<.01	0.29	ND
AMB-057	<.005	<.03	<.5	<.15	<.01	<.01	<.02	0.01	<.05	49	0.07	0.84	0.12
AMB-057										24	0.05	0.92	1.42
AMB-057					<.01	<.05						0.20	
AMB-058	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	38	0.055	0.053	<.1
AMB-058	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	45	0.05	0.05	ND
AMB-058								0.01		16	0.05	0.06	
AMB-058					<.01	<.05						5.40	
AMB-059	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	45	0.1	0.37	<.1
AMB-059	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	32	<.01	0.91	ND
AMB-059										22	0.05	0.78	
AMB-059					<.01	<.05						0.86	
AMB-060	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	37	0.07	2.4	0.12
AMB-060										18	0.06	1.85	
AMB-060					<.01	<.05						2.80	
AMB-061	<.005	<.03	<.5	<.17	<.01	<.01	<.02	0.01	<.05	5.2	<.01	1.20	0.16
AMB-062	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	25	0.06	1.62	ND
AMB-062	<.005	<.03	<.5	<.17	<.01	<.01	<.02	<.01	<.05	22	0.05	1.32	0.16
AMB-063	<.002	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	5.2	0.011	2.1	
AMB-063	<.005	<.03	<.5	<.15	<.01	<.01	<.02	0.04	<.05	49	0.05	<.02	ND
AMB-063								0.04			0.05		
AMB-063					<.01	<.05						0.05	
AMB-064	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	38	0.07	1.53	ND
AMB-064										18	0.06	1.85	
AMB-064					<.01	<.05						2.40	
AMB-065	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	38	0.09	0.88	ND

Appendix D: Ambient Well Network Water Quality Data

Well	Location	Latitude	Longitude	County	Sub-Basin	Aquifer
AMB-065	East Central Newberry County	34.5639889	-82.3274444	Newberry	Broad	Piedmont Bedrock
AMB-065	East Central Newberry County	34.5639889	-82.3274444	Newberry	Broad	Piedmont Bedrock
AMB-066	Newberry County water systems	33.9177333	-81.3937	Newberry	Broad	Piedmont Bedrock
AMB-067	Town of Whitmire	34.1950722	-81.4126389	Newberry	Broad	Piedmont Bedrock
AMB-067	Town of Whitmire	34.1950722	-81.4126389	Newberry	Broad	Piedmont Bedrock
AMB-067	Town of Whitmire	34.1950722	-81.4126389	Newberry	Broad	Piedmont Bedrock
AMB-068	Chappels	34.3928889	-81.4605	Newberry	Saluda-Edisto	Piedmont Bedrock
AMB-068	Chappels	34.3928889	-81.4605	Newberry	Saluda-Edisto	Piedmont Bedrock
AMB-068	Chappels	34.3928889	-81.4605	Newberry	Saluda-Edisto	Piedmont Bedrock
AMB-068	Chappels	34.3928889	-81.4605	Newberry	Saluda-Edisto	Piedmont Bedrock
AMB-069	Newberry-Edna Martin	34.3130194	-81.5713028	Newberry	Broad	Saprolite
AMB-069	Newberry-Edna Martin	34.3130194	-81.5713028	Newberry	Broad	Saprolite
AMB-070	Mountain rest	34.5143194	-81.6449278	Oconee	Sav-Salk	Saprolite
AMB-070	Mountain rest	34.5143194	-81.6449278	Oconee	Sav-Salk	Saprolite
AMB-070	Mountain rest	34.5143194	-81.6449278	Oconee	Sav-Salk	Saprolite
AMB-071	Town of Pickens	34.1899444	-81.9066417	Pickens	Saluda-Edisto	Saprolite
AMB-071	Town of Pickens	34.1899444	-81.9066417	Pickens	Saluda-Edisto	Saprolite
AMB-071	Town of Pickens	34.1899444	-81.9066417	Pickens	Saluda-Edisto	Saprolite
AMB-072	Town of Ballentine	34.3293472	-81.5367778	Richland	Saluda-Edisto	Piedmont Bedrock
AMB-072	Town of Ballentine	34.3293472	-81.5367778	Richland	Saluda-Edisto	Piedmont Bedrock
AMB-072	Town of Ballentine	34.3293472	-81.5367778	Richland	Saluda-Edisto	Piedmont Bedrock
AMB-073	Town of Union	34.8125389	-83.1410861	Union	Broad	Union
AMB-073	Town of Union	34.8125389	-83.1410861	Union	Broad	Union
AMB-074	Guthries	35.0411694	-82.6571528	York	Catawba	Piedmont Bedrock
AMB-074	Guthries	35.0411694	-82.6571528	York	Catawba	Piedmont Bedrock
AMB-075	Abbeville Shallow Well	34.140875	-82.4037083	Abbeville	Saluda-Edisto	Saprolite
AMB-075	Abbeville Shallow Well	34.140875	-82.4037083	Abbeville	Saluda-Edisto	Saprolite
AMB-075	Abbeville Shallow Well	34.140875	-82.4037083	Abbeville	Saluda-Edisto	Saprolite
AMB-076	Starr Deep Well	34.3965833	-82.7562083	Anderson	Saluda-Edisto	Piedmont Bedrock
AMB-076	Starr Deep Well	34.3965833	-82.7562083	Anderson	Saluda-Edisto	Piedmont Bedrock
AMB-076	Starr Deep Well	34.3965833	-82.7562083	Anderson	Saluda-Edisto	Piedmont Bedrock
AMB-077	Town of Blacksburg	34.1236306	-81.2602361	Cherokee	Broad	Piedmont Bedrock
AMB-077	Town of Blacksburg	34.1236306	-81.2602361	Cherokee	Broad	Piedmont Bedrock
AMB-078	Town of Mauldin #2	34.4357361	-80.8634917	Greenville	Broad	Piedmont Bedrock
AMB-079	Fork Shoals	34.7375222	-81.6614389	Greenville	Saluda-Edisto	Piedmont Bedrock
AMB-079	Fork Shoals	34.7375222	-81.6614389	Greenville	Saluda-Edisto	Piedmont Bedrock
AMB-079	Fork Shoals	34.7375222	-81.6614389	Greenville	Saluda-Edisto	Piedmont Bedrock
AMB-080	Newberry	34.9077528	-81.1939972	Newberry	Broad	Piedmont Bedrock
AMB-080	Newberry	34.9077528	-81.1939972	Newberry	Broad	Piedmont Bedrock
AMB-081	Mountain Rest	35.1547944	-81.4397694	Oconee	Sav-Salk	Piedmont Bedrock
AMB-081	Mountain Rest	35.1547944	-81.4397694	Oconee	Sav-Salk	Piedmont Bedrock
AMB-081	Mountain Rest	35.1547944	-81.4397694	Oconee	Sav-Salk	Piedmont Bedrock
AMB-082	Pickens	34.5645194	-82.3274861	Pickens	Saluda-Edisto	Piedmont Bedrock
AMB-082	Pickens	34.5645194	-82.3274861	Pickens	Saluda-Edisto	Piedmont Bedrock
AMB-082	Pickens	34.5645194	-82.3274861	Pickens	Saluda-Edisto	Piedmont Bedrock
AMB-083	Union	34.32895	-81.5378472	Union	Broad	Piedmont Bedrock
AMB-083	Union	34.32895	-81.5378472	Union	Broad	Piedmont Bedrock
AMB-084	McClellanville	34.8121667	-83.1412083	Charleston	Catawba	Surf sands
AMB-085	Town of Edisto Beach #13	35.0365667	-82.6772222	Colleton	Saluda-Edisto	Surf Sands
AMB-086	Bennets Point-Baily	34.7394278	-81.664425	Collenton	Sav-Salk	Surf sands
AMB-086	Bennets Point-Baily	34.7394278	-81.664425	Collenton	Sav-Salk	Surf sands
AMB-086	Bennets Point-Baily	34.7394278	-81.664425	Collenton	Sav-Salk	Surf sands
AMB-086	Bennets Point-Baily	34.7394278	-81.664425	Collenton	Sav-Salk	Surf sands
AMB-087	Community of North Santee	33.0907139	-79.4555278	Gerogetown	Catawba	Surf sands
AMB-088	Socastee	32.5143056	-80.309125	Horry	Pee Dee	Surf Sands
AMB-088	Socastee	32.5143056	-80.309125	Horry	Pee Dee	Surf Sands
AMB-089	Town of Fairfax	32.9429611	-81.2393611	Allendale	Sav-Salk	Tertiary Limestone
AMB-089	Town of Fairfax	32.9429611	-81.2393611	Allendale	Sav-Salk	Tertiary Limestone
AMB-089	Town of Fairfax	32.9429611	-81.2393611	Allendale	Sav-Salk	Tertiary Limestone
AMB-090	Frogmore	32.553375	-80.4566139	Beaufort	Sav-Salk	Tertiary Limestone
AMB-090	Frogmore	32.553375	-80.4566139	Beaufort	Sav-Salk	Tertiary Limestone
AMB-091	Sheldon	33.2482778	-79.4018056	Beaufort	Sav-Salk	Tertiary Limestone
AMB-091	Sheldon	33.2482778	-79.4018056	Beaufort	Sav-Salk	Tertiary Limestone
AMB-091	Sheldon	33.2482778	-79.4018056	Beaufort	Sav-Salk	Tertiary Limestone
AMB-092	Hilton Head Island-Wexford	33.6662222	-78.997825	Beaufort	Sav-Salk	Tertiary Limestone
AMB-092	Hilton Head Island-Wexford	33.6662222	-78.997825	Beaufort	Sav-Salk	Tertiary Limestone

Appendix D: Ambient Well Network Water Quality Data

Well	Date	pH	SP_CD	TDS	Hard	TOC	CL_ppm	CL_epm	CL_%-	SO4_ppm	SO4_epm	SO4_%-	ALK_ppm	ALK_epm	ALK_%-
AMB-065	01-Dec-91	7.2	132	140	44		3.9	0.11	10.09	<10	0	0	60	0.98	89.91
AMB-065	01-May-87	6.5	122	<1	47	<1	3.0	0.08	6.25	11	0.23	17.97	59	0.97	75.78
AMB-066	01-May-87	6.6	109	74	31	<1	5.0	0.14	16.87	<10	0	0	42	0.69	83.13
AMB-067	01-May-97	7.0	272	170	100	5.4	4.3	0.12	5.24	6	0.12	5.24	125	2.05	89.52
AMB-067	01-Dec-91	6.8	211	180	75		60	1.69	49.85	<10	0	0	104	1.7	50.15
AMB-067	01-May-87	6.5	170	<1	68	<1	3.5	0.1	5.26	11	0.23	12.11	96	1.57	82.63
AMB-068	15-May-01	6.9	197	150		<2	5.1	0.14	7.45	5.8	0.12	6.38	99	1.62	86.17
AMB-068	01-May-97	7.0	186	130	75	3.5	4.6	0.13	8.61	<5	0	0	84	1.38	91.39
AMB-068	01-Dec-91	7.2	195	180	72		5.8	0.16	7.62	12	0.25	11.9	103	1.69	80.48
AMB-068	01-May-87	7.3	176	130	65	<1	5.0	0.14	7.61	<10	0	0	104	1.7	92.39
AMB-069	01-Apr-95	6.2	183	130	41	3.5	17.6	0.5	50.51	<5	0	0	30	0.49	49.49
AMB-069	01-Apr-90	5.9	140	110	28	2.7	16.1	0.45	57.69	<10	0	0	20	0.33	42.31
AMB-070	01-Jul-00	5.3	27.2		4	<2	2.1	0.06	42.86	<5	0	0	5	0.08	57.14
AMB-070	01-Apr-95	5.3	32	22	5.0	3.0	2.2	0.06	42.86	<5	0	0	5	0.08	57.14
AMB-070	01-Apr-90	5.2	38	26	6.0	3.9	6.6	0.19	35.19	13	0.27	50	5	0.08	14.81
AMB-071	15-May-01	5.9	22.5	4		<2	1	0.03	20	<5	0	0	7.6	0.12	80
AMB-071	01-Apr-95	5.9	22	8	2	2.2	1.0	0.03	16.67	<5	0	0	9	0.15	83.33
AMB-071	01-Apr-90	6.4	36	24	15	1.1	1.5	0.04	11.76	<10	0	0	18	0.3	88.24
AMB-072	15-May-01	6.8	458	250		<2	72	2.03	46.77	8.6	0.18	4.15	130	2.13	49.08
AMB-072	01-Dec-91	6.0	142	110	45	7.8	14.1	0.4	29.41	13	0.27	19.85	42	0.69	50.74
AMB-072	01-May-87	6.5	178	110	86	<1	9.5	0.27	14.14	10	0.21	10.99	87	1.43	74.87
AMB-073	01-Apr-95	6.3	62	50	17	2.2	2.3	0.06	12.24	<5	0	0	26	0.43	87.76
AMB-073	01-Apr-90	6.8	60	60	23	2.4	1.8	0.05	8.93	<10	0	0	31	0.51	91.07
AMB-074	01-Apr-95	7.0	94	78	35	1.1	2.2	0.06	7.89	<5	0	0	43	0.7	92.11
AMB-074	01-Apr-90	7.1	98	90	45	1.4	1.8	0.05	5.62	<10	0	0	51	0.84	94.38
AMB-075	01-Jul-00	5.9	47.8	36	12	<2	2.5	0.07	21.21	<5	0	0	16	0.26	78.79
AMB-075	01-Apr-95	6.4	49	42	16	2.1	3.6	0.1	25	<5	0	0	18	0.3	75
AMB-075	01-Apr-90	7.8	88	70	30	2.1	2.2	0.06	5.66	10	0.21	19.81	48	0.79	74.53
AMB-076	01-Jul-00	7.3	133	100	49	<2	2.9	0.08	10.13	7	0.15	18.99	34	0.56	70.89
AMB-076	01-Apr-95	6.7	106	83	39	1.8	3.6	0.1	16.95	<5	0	0	30	0.49	83.05
AMB-076	01-Apr-90	11.0	220	110	25	2.2	2.7	0.08	4.85	<10	0	0	96	1.57	95.15
AMB-077	01-Apr-95	7.6	147	95	67	3.3	1.9	0.05	3.85	<5	0	0	76	1.25	96.15
AMB-077	01-Apr-90	7.7	131	98	68	1.8	1.3	0.04	3.6	<10	0	0	65	1.07	96.4
AMB-078	01-Apr-90	6.1	260	42	9.0	1.6	1.5	0.04	23.53	<10	0	0	8	0.13	76.47
AMB-079	15-May-01	7.6	154	130		<2	2.2	0.06	4.17	6.0	0.12	8.33	77	1.26	87.5
AMB-079	01-Apr-95	7.5	168	120	60	2.7	1.9	0.05	3.62	<5	0	0	81	1.33	96.38
AMB-079	01-Apr-90	7.5	79	120	67	2.3	1.9	0.05	4	<10	0	0	73	1.2	96
AMB-080	01-Apr-95	6.6	97	90	33	2.7	3.0	0.08	10.26	<5	0	0	43	0.7	89.74
AMB-080	01-Apr-90	6.8	90	82	34	1.5	3.2	0.09	11.54	<10	0	0	42	0.69	88.46
AMB-081	01-Jul-00	5.1	34.2		5	<2	2	0.06	54.55	<5	0	0	3	0.05	45.45
AMB-081	01-Apr-95	5.2	34	18	5.0	3.3	2.7	0.08	53.33	<5	0	0	4	0.07	46.67
AMB-081	01-Apr-90	5.1	33	24	5.0	3.6	4.4	0.12	63.16	<10	0	0	4	0.07	36.84
AMB-082	15-May-01	6.4	50.1	28		<2	1.4	0.04	9.3	<5	0	0	24	0.39	90.7
AMB-082	01-Apr-95	6.2	36	32	9.0	2.2	<1	0	0	<5	0	0	17	0.28	100
AMB-082	01-Apr-90	6.3	31	36	8.0	1.0	<1	0	0	12	0.25	47.17	17	0.28	52.83
AMB-083	01-Apr-95	6.2	114	96	26	1.7	12.8	0.36	53.73	<5	0	0	19	0.31	46.27
AMB-083	01-Apr-90	6.2	124	120	36	1.2	16.7	0.47	61.04	<10	0	0	18	0.3	38.96
AMB-084	01-May-89	7.2	4450	290	210	4.5	20.7	0.58	13.43	<10	0	0	228	3.74	86.57
AMB-085	01-May-88	6.9	1540	1100	450	13.2	240	6.76	49.71	170	3.54	26.03	201	3.3	24.26
AMB-086	01-Jul-00	8.5	2098	1300	33	5.1	37	1.04					398	6.52	
AMB-086	01-May-98	8.6		990	29	20	235	6.62	50.69	33	0.69	5.28	351	5.75	44.03
AMB-086	01-May-93	8.1	4	2400	97	39	295	8.31	45.36	100	2.08	11.35	484	7.93	43.29
AMB-086	01-May-88	8.5	1500	200	19	<1	215	6.06	44.66	30	0.62	4.57	420	6.89	50.77
AMB-087	01-May-89	7.3	559	360	210	5.2	12.8	0.36	7.39	<10	0	0	275	4.51	92.61
AMB-088	01-Jul-94	6.3	129	79	21	3.2	22.9	0.65	31.55	38	0.79	38.35	38	0.62	30.1
AMB-088	01-May-89	6.2	124	80	20	<1	17	0.48	47.06	<10	0	0	33	0.54	52.94
AMB-089	01-May-98	8.2	197	140	50		2.7	0.08	5.3	<5	0	0	87	1.43	94.7
AMB-089	01-May-93	8.4	200	140	41	3.8	2.2	0.06	3.37	10.00	0.21	11.8	92	1.51	84.83
AMB-089	01-May-88	8.4	170	110	42	<1	2.0	0.06	3.8	<10	0	0	93	1.52	96.2
AMB-090	01-Jul-00	8.0	308	190	110	2.1	29.5	0.83	28.14	5	0.1	3.39	123	2.02	68.47
AMB-090	01-May-88	7.9	262	200	120	1.0	26	0.73	26.26	<10	0	0	125	2.05	73.74
AMB-091	01-Jul-00	8.1	288	180	93	<2	5.5	0.15	5.98	5	0.1	3.98	138	2.26	90.04
AMB-091	01-May-98	8.0	275	37	96		6.1	0.17	7.33	<5	0	0	131	2.15	92.67
AMB-091	01-May-93	8.1	274	150	97	11.4	5.6	0.16	6.61	<10	0	0	138	2.26	93.39
AMB-091	01-May-88	8.0	230	170	99	<1	5.0	0.14	5.79	<10	0	0	139	2.28	94.21
AMB-092	01-Jul-00	7.6	751	440	260	7.4	77.6	2.19	32.4	22	0.46	6.8	251	4.11	60.8
AMB-092	01-May-98	7.5	628	390	240		76.2	2.15	36.5	<5	0	0	228	3.74	63.5

Appendix D: Ambient Well Network Water Quality Data

Well	CA_ppm	CA_epm	CA_%	MG_ppm	MG_epm	MG_%	NA_ppm	NA_epm	K_ppm	K_epm	NA_K%	F_ppm	AS_ppm
AMB-065	14	0.7	55.56	2.3	0.19	15.08	7.7	0.33	1.6	0.04	29.37	0.22	<.005
AMB-065	15	0.75	57.69	2.2	0.18	13.85	8.4	0.37	<1	0	28.46	0.20	<.005
AMB-066	7.8	0.39	38.61	2.7	0.22	21.78	9.1	0.4	<1	0	39.6	0.20	<.005
AMB-067	27	1.35	48.21	8.9	0.73	26.07	13	0.57	6	0.15	25.71	0.33	<.005
AMB-067	18	0.9	42.25	7.4	0.61	28.64	11	0.48	5.6	0.14	29.11	0.30	<.005
AMB-067	15	0.75	39.89	7.4	0.61	32.45	12	0.52	<1	0	27.66	0.30	<.005
AMB-068	18	0.9	41.67	10	0.82	37.96	9.4	0.41	1.2	0.03	20.37	0.1	<.005
AMB-068	16	0.8	41.45	8.6	0.71	36.79	9.6	0.42	<1	0	21.76	0.1	<.005
AMB-068	0.50	0.02	1.83	8.5	0.7	64.22	8.6	0.37	<6	0	33.94	0.02	<.005
AMB-068	14	0.7	41.67	7.3	0.6	35.71	8.8	0.38	<1	0	22.62	0.10	<.005
AMB-069	12	0.6	37.97	2.7	0.22	13.92	14	0.61	6	0.15	48.1	<0.1	<.005
AMB-069	8	0.4	32.79	2	0.16	13.11	12	0.52	5.6	0.14	54.1	<0.1	<.005
AMB-070	0.64	0.03	15.79	0.65	0.05	26.32	2.6	0.11	<1	0	57.89	<.1	<.005
AMB-070	0.7	0.03	14.29	0.68	0.06	28.57	2.8	0.12	<1	0	57.14	<0.1	<.005
AMB-070	1.1	0.05	16.13	0.86	0.07	22.58	3.7	0.16	1.3	0.03	61.29	<0.1	<.005
AMB-071	2.3	0.11	57.89	0	0	0	1	0.04	1.7	0.04	42.11	<.1	<.005
AMB-071	2.3	0.11	68.75	0.13	0.01	6.25	1	0.04	<1	0	25	<0.1	<.005
AMB-071	5.9	0.29	72.5	0.17	0.01	2.5	1.3	0.06	1.4	0.04	25	<0.1	<.005
AMB-072	0.15	0.01	0.23	0	0	0	100	4.35	<1	0	99.77	<.1	0.0073
AMB-072	12	0.6	46.15	3.7	0.3	23.08	9.2	0.4	<1	0	30.77		<.005
AMB-072	29	1.45	69.38	3.30	0.27	12.92	8.5	0.37	<1	0	17.7	<0.1	<.005
AMB-073	5.7	0.28	47.46	0.75	0.06	10.17	4.6	0.2	2	0.05	42.37	<0.1	<.005
AMB-073	8.2	0.41	57.75	0.67	0.06	8.45	4.4	0.19	1.8	0.05	33.8	0.12	<.005
AMB-074	9.5	0.47	50.54	2.8	0.23	24.73	4.4	0.19	1.5	0.04	24.73	<0.1	<.005
AMB-074	13	0.65	57.02	3	0.25	21.93	4.8	0.21	1	0.03	21.05	0.12	<.005
AMB-075	3.8	0.19	42.22	0.51	0.04	8.89	4	0.17	2	0.05	48.89	<.1	<.005
AMB-075	5.7	0.28	57.14	0.41	0.03	6.12	2.9	0.13	2	0.05	36.73	<0.1	<.005
AMB-075	11	0.55	53.4	0.5	0.04	3.88	4.9	0.21	8.9	0.23	42.72	<0.1	<.005
AMB-076	14	0.7	51.85	3.4	0.28	20.74	7.3	0.32	2	0.05	27.41	0.14	<.005
AMB-076	8.8	0.44	45.83	4.1	0.34	35.42	3.2	0.14	1.7	0.04	18.75	<0.1	<.005
AMB-076	10	0.5	23.15	0.07	0.01	0.46	35	1.52	5	0.13	76.39	0.1	<.005
AMB-077	19	0.95	63.33	4.7	0.39	26	2.4	0.1	2.5	0.06	10.67	<0.1	<.005
AMB-077	19	0.95	60.51	5.1	0.42	26.75	2.8	0.12	3.3	0.08	12.74	0.20	<.005
AMB-078	2.3	0.11	32.35	0.68	0.06	17.65	3	0.13	1.5	0.04	50	<0.1	<.005
AMB-079	18	0.9	51.72	3	0.25	14.37	12	0.52	2.6	0.07	33.91	1.3	<.005
AMB-079	19	0.95	53.67	3	0.25	14.12	12	0.52	2	0.05	32.2	1.49	<.005
AMB-079	17	0.85	43.15	6	0.49	24.87	11	0.48	5.9	0.15	31.98	1.20	<.005
AMB-080	7.3	0.36	37.5	3.6	0.3	31.25	6.3	0.27	1	0.03	31.25	0.12	<.005
AMB-080	7.5	0.37	36.63	3.80	0.31	30.69	6.6	0.29	1.7	0.04	32.67	0.14	<.005
AMB-081	0.85	0.04	16	0.82	0.07	28	2.6	0.11	1	0.03	56	<.1	<.005
AMB-081	0.80	0.04	18.18	0.75	0.06	27.27	2.8	0.12	<1	0	54.55	<0.1	<.005
AMB-081	0.84	0.04	17.39	0.71	0.06	26.09	3	0.13	<1	0	56.52	<0.1	<.005
AMB-082	4.2	0.21	40.38	1	0.08	15.38	3.7	0.16	2.9	0.07	44.23	<.1	<.005
AMB-082	2.9	0.14	40	0.4	0.03	8.57	3.4	0.15	1	0.03	51.43	<0.1	<.005
AMB-082	2.5	0.12	40	0.32	0.03	10	3.4	0.15	<1	0	50	<0.1	<.005
AMB-083	7.5	0.37	38.14	1.8	0.15	15.46	9.4	0.41	1.7	0.04	46.39	<0.1	<.005
AMB-083	10	0.5	38.76	2.6	0.21	16.28	12	0.52	2.3	0.06	44.96	0.12	<.005
AMB-084	71	3.54	72.24	8	0.66	13.47	16	0.7	<1	0	14.29	<0.1	<.005
AMB-085	148	7.38	48.55	20	1.65	10.86	142	6.17	<1	0	40.59	1.10	<.005
AMB-086	4.6	0.23	1.19	5.3	0.44	2.28	420	18.26	14	0.36	96.53	3.15	<.005
AMB-086	3.7	0.18	1.03	4.9	0.4	2.29	380	16.52	15	0.38	96.68	0.72	<.005
AMB-086	11	0.55	1.22	17	1.4	3.1	980	42.61	22	0.56	95.68	2.6	<.005
AMB-086	2.5	0.12	0.91	3	0.25	1.89	290	12.61	10	0.26	97.21	2.90	<.005
AMB-087	73	3.64	66.91	7	0.58	10.66	28	1.22	<1	0	22.43	0.28	<.005
AMB-088	7.1	0.35	33.02	0.79	0.07	6.6	14	0.61	1	0.03	60.38	<0.1	<.005
AMB-088	6.8	0.34	32.38	0.77	0.06	5.71	15	0.65	<1	0	61.9	<0.1	<.005
AMB-089	13	0.65	30.23	4.3	0.35	16.28	23	1	6	0.15	53.49	0.37	<.005
AMB-089	11	0.55	26.07	3.4	0.28	13.27	26	1.13	6	0.15	60.66	0.38	<.005
AMB-089	11	0.55	28.5	3.5	0.29	15.03	25	1.09	<1	0	56.48	0.50	<.005
AMB-090	36	1.8	58.06	4.5	0.37	11.94	19	0.83	4	0.1	30	0.29	<.005
AMB-090	40	2	60.61	5.2	0.43	13.03	20	0.87	<1	0	26.36	0.20	<.005
AMB-091	23	1.15	40.64	8.7	0.72	25.44	18	0.78	7	0.18	33.92	0.3	<.005
AMB-091	22	1.1	37.16	10	0.82	27.7	19	0.83	8.2	0.21	35.14	0.31	<.005
AMB-091	23	1.15	38.21	9.6	0.79	26.25	20	0.87	8	0.2	35.55	0.26	<.005
AMB-091	23	1.15	36.62	10	0.82	26.11	21	0.91	10	0.26	37.26	0.30	<.005
AMB-092	92	4.59	62.96	7.6	0.63	8.64	47	2.04	1	0.03	28.4		<.005
AMB-092	80	3.99	56.84	8.8	0.72	10.26	52	2.26	2	0.05	32.91	0.22	<.005

Appendix D: Ambient Well Network Water Quality Data

Well	BA_ppm	CU_ppm	FE_ppm	PB_ppm	MN_ppm	ZN_ppm	AL_ppm	BE_ppm	B_ppm	CO_ppm	HG_ppm	MO_ppm
AMB-065		0.02				0.34						<.0002
AMB-065	<.05	<.05	<.05	<.05	<.05							
AMB-066	<.05	<.05	<.05	<.05	0.15	<.01	<.05	<.001	<.02			
AMB-067	<.05	<.01	0.15	<.05	0.13	<.01	0.09	<.003	0.13	<.02	<.0002	<.02
AMB-067	<.05	0.02	0.23	<.05	0.06	<.01	<.05	<.001	<.02	<.02	<.0002	
AMB-067	<.05	<.05	0.90	<.05	0.08	<.01	<.05	<.001	<.02	<.02		
AMB-068	<.05	0.05	1.4	<.05	0.017	0.53	<.1	<.003	<.1	<.02	<.0002	<.02
AMB-068	<.05	<.01	0.85	<.05	0.02	0.9	0.05	<.003	0.06	<.02	<.0002	<.02
AMB-068			0.45		0.04	4.70					<.0002	
AMB-068			<.05	0.11	<.05	0.11						
AMB-069	0.34	<.01	0.03	<.05	<.01	0.01	<.05	<.003	<.03	<.02	<.0002	<.02
AMB-069	0.32	<.01	0.02	<.05	0.02	0.01	<.05	<.001	<.02	<.02	<.0002	<.02
AMB-070	<.05	0.01	0.02	<.05	0.02	0.02	<.1	<.003	<.1	<.02	<.0002	<.02
AMB-070	<.05	0.02	<.02	<.05	0.03	<.01	<.05	<.003	<.03	<.02	<.0002	<.02
AMB-070	<.05	0.09	0.01	<.05	0.05	0.04	0.06	<.001	0.02	<.02	<.0002	<.02
AMB-071	<.05	<.01	0.073	<.05	<.01	<.01	<.1	<.003	<.1	<.02	<.0002	<.02
AMB-071	<.05	<.01	<.02	<.05	0.01	<.01	<.05	<.003	<.02	<.02	<.0002	<.02
AMB-071	<.05	<.01	0.07	<.05	0.02	0.01	0.17	<.001	0.03	<.02	<.0002	<.02
AMB-072	<.05	<.01	<.02	<.05	<.01	<.01	<.1	<.003	<.1	<.02	0.00032	0.047
AMB-072			0.13	0.02		0.03	0.02				<.0002	
AMB-072			0.12	0.05	<.05	<.05						
AMB-073	<.05	<.01	<.02	<.05	<.01	<.01	<.05	<.003	<.03	<.02	<.0002	<.02
AMB-073	<.05	<.01	0.22	<.05	<.01	0.01	0.47	<.001	<.02	<.02	<.0002	<.02
AMB-074	<.05	<.01	0.18	<.05	<.01	0.32	0.13	<.003	<.03	<.02	<.0002	<.02
AMB-074	<.05	<.01	<.01	<.05	<.01	0.65	<.05	<.001	<.02	<.02	<.0002	<.02
AMB-075	<.05	0.01	0.37	<.05	0.06	<.01	0.94	<.003	<.1	<.02	<.0002	<.02
AMB-075	<.05	<.01	0.27	<.05	0.04	<.01	0.56	<.003	<.05	<.02	<.0002	<.02
AMB-075	<.05	0.01	0.01	<.05	0.02	0.01	0.11	<.001	0.06	<.02	<.0002	<.02
AMB-076	<.05	<.01	0.04	<.05	<.01	<.01	<.1	<.003	<.1	<.02	<.0002	<.02
AMB-076	<.05	<.01	0.23	<.05	<.01	<.01	0.14	<.003	<.03	<.02	<.0002	<.02
AMB-076	<.05	0.01	0.15	<.05	0.01	0.01	0.10	<.001	0.07	<.02	<.0002	<.02
AMB-077	<.05	0.01	0.14	<.05	<.01	1.3	0.11	<.003	<.05	<.02	<.0002	<.02
AMB-077			0.05		0.01	1.1					<.0002	
AMB-078	<.05	<.01	0.01	<.05	0.02	0.20	<.05	<.001	<.02	<.02	<.0002	<.02
AMB-079	<.05	<.01	0.051	<.05	0.016	0.039	<.1	<.003	<.1	<.02	<.0002	<.02
AMB-079	<.05	<.01	0.03	<.05	0.01	0.08	<.05	<.003	<.03	<.02	<.0002	<.02
AMB-079	0.08	<.01	7.2	<.05	0.14	0.33	4.60	<.001	<.02	<.02	<.0002	<.02
AMB-080	0.06	<.01	<.02	<.05	<.01	<.01	<.05	<.003	<.03	<.01	<.0002	<.02
AMB-080	0.06	0.03	0.02	<.05	<.01	0.18	<.05	<.001	0.02	<.02	<.0002	<.02
AMB-081	<.05	<.01	<.02	<.05	0.05	<.01	<.1	<.003	<.1	<.02	<.0002	<.02
AMB-081	<.05	0.01	<.02	<.05	0.06	<.01	0.06	<.003	<.03	<.02	<.0002	<.02
AMB-081	<.05	0.01	<.01	<.05	0.06	0.01	0.05	<.001	0.02	<.02	<.0002	<.02
AMB-082	<.05	0.013	0.027	<.05	<.01	<.01	<.1	<.003	<.1	<.02	<.0002	<.02
AMB-082	<.05	<.01	<.02	<.05	<.01	<.01	<.05	<.003	<.03	<.02	<.0002	<.02
AMB-082	<.05	0.01	<.01	<.05	<.01	0.07	<.05	<.001	0.03	<.02	<.0002	<.02
AMB-083	<.05	0.04	0.47	<.05	0.01	0.02	<.05	<.003	<.03	<.02	<.0002	<.02
AMB-083	<.05	0.03	0.70	<.05	0.01	0.10	<.05	<.001	<.02	<.02	<.0002	<.02
AMB-084	<.05	<.01	0.67	<.05	0.10	0.02	<.05	<.001	0.04	<.02	<.0002	<.02
AMB-085	<.05	<.05	0.023	<.05	0.13	<.05	<.05	<.001	0.19	0.05	<.0002	<.02
AMB-086	<.05	<.01	<.02	<.05	<.01	<.01	<.1	<.003	1.3	<.02	<.0002	<.02
AMB-086	<.05	<.01	<.02	<.05	<.01	<.01	<.1	<.003	<.03	<.02	<.0002	<.02
AMB-086	<.05	<.01	0.12	<.05	<.01	<.01	<.05	<.003	2.30	<.02	<.0002	<.02
AMB-086	<.05	<.05	<.05	<.05	<.05	<.05	<.05	<.001	0.96	<.05	<.0002	<.01
AMB-087	<.05	<.01	0.10	<.05	0.01	0.90	<.05	<.001	0.05	<.02	<.0002	<.02
AMB-088	<.05	<.01	4.60	0.11	0.04	0.48	0.15	<.003	<.03	<.02	<.0002	<.02
AMB-088	<.05	<.01	7.40	<.05	0.05	1.50	<.05	<.001	0.04	<.02	<.0002	<.02
AMB-089	<.05	<.01	<.02	<.05	<.01	<.01	<.1	<.003	0.08	<.02	<.0002	<.02
AMB-089	<.05	<.05	<.05	<.05	0.01	<.05	<.001	<.05	<.05	<.05	<.0002	<.02
AMB-090	<.05	<.01	<.02	<.05	<.01	<.01	<.1	<.003	<.1	<.02	<.0002	<.02
AMB-090	<.05	<.05	<.05	<.05	<.05	<.05	<.05	<.001	0.05	<.05	<.0002	<.02
AMB-091	<.05	<.01	<.02	<.05	<.01	<.01	<.1	<.003	<.1	<.02	<.0002	<.02
AMB-091	<.05	<.01	<.02	<.05	<.01	<.01	<.1	<.003	<.1	<.02	<.0002	<.02
AMB-091	<.05	<.05	<.05	<.05	<.05	<.05	<.05	<.001	<.05	<.05	<.0002	<.02
AMB-092	<.05	0.01	5	<.05	0.17	<.01	<.1	<.003	<.1	<.02	<.0002	<.02
AMB-092	<.05	<.01	2.4	<.05	0.12	<.01	<.1	<.003	<.1	<.02	<.0002	<.02

Appendix D: Ambient Well Network Water Quality Data

Well	SE_ppm	AG_ppm	SN_ppm	U_ppm	CD_ppm	CR_ppm	NI_ppm	LI_ppm	SB_ppm	SI_ppm	SR_ppm	NO3_ppm	TNK_ppm
AMB-065										17	0.10	0.82	
AMB-065					<.01	<.05						0.94	
AMB-066					<.01	<.05						2.10	
AMB-067	<.005	<.03	<.5	<.15	<.01	<.01	<.02	0.01	<.05	54	0.15	<.02	ND
AMB-067								0.01		25	0.12		0.11
AMB-067					<.01	<.05						0.04	
AMB-068	<.002	<.03	32	<.15	<.01	<.01	<.02	<.01	<.05	57	0.11	0.13	ND
AMB-068	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	55	0.1	0.16	0.27
AMB-068								0.01		27	0.09	0.18	0.14
AMB-068					<.01	<.05						0.18	
AMB-069	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	20	0.1	8.1	ND
AMB-069	<.005	<.03	<.5	<.17	<.01	<.01	<.02	<.01	<.05	16	0.06	8.30	0.10
AMB-070	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	10	<.01	0.85	ND
AMB-070	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	9	<.01	1.2	ND
AMB-070	<.005	<.03	<.5	<.17	<.01	<.01	<.02	<.01	<.05	8.7	<.01	1.30	0.16
AMB-071	<.002	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	6.9	<.01	0.060	ND
AMB-071	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	5.5	<.01	0.08	ND
AMB-071	<.005	<.03	<.5	<.17	<.01	0.01	<.02	0.01	<.05	6.4	<.01	0.12	ND
AMB-072	<.002	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	20	<.01	0.39	
AMB-072											0.05	1.77	
AMB-072						<.05						0.76	
AMB-073	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	25	0.07	0.86	ND
AMB-073	<.005	<.03	<.5	<.17	<.01	<.01	<.02	<.01	<.05	26	0.07	0.78	0.18
AMB-074	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	34	0.07	0.55	ND
AMB-074	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	33	0.07	0.29	0.12
AMB-075	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	20	0.04	1.34	ND
AMB-075	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	19	0.04	0.83	ND
AMB-075	<.005	<.03	<.5	<.17	<.01	0.01	<.02	0.01	<.05	22	0.08	1.04	0.20
AMB-076	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	23	0.05	1.42	ND
AMB-076	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	25	0.04	3.6	1.5
AMB-076	<.005	<.03	<.5	<.17	<.01	<.01	<.02	<.01	<.05	27	0.53	<.02	0.26
AMB-077	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	25	0.02	<.02	ND
AMB-077								0.01		25	0.03		
AMB-078	<.005	<.03	<.5	<.17	<.01	<.01	<.02	0.01	<.05	6.7	<.01	2.00	0.20
AMB-079	0.0022	<.03	<.5	<.15	<.01	<.01	<.02	0.054	<.05	35	0.087	0.061	0.14
AMB-079	<.005	<.03	<.5	<.15	<.01	<.01	<.02	0.06	<.05	37	0.09	<.02	ND
AMB-079	<.005	<.03	<.5	<.15	<.01	<.01	<.02	0.08	<.05	55	0.09	0.06	0.16
AMB-080	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	50	0.09	0.72	ND
AMB-080	<.005	<.03	<.5	<.17	<.01	<.01	<.02	<.01	<.05	50	0.09	0.56	ND
AMB-081	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	9.2	<.01	1.76	ND
AMB-081	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	8.7	<.01	1.56	ND
AMB-081	<.005	<.03	<.5	<.17	<.01	<.01	<.02	0.01	<.05	9.1	<.01	1.10	0.10
AMB-082	<.002	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	23	0.018	0.28	ND
AMB-082	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	21	0.02	0.04	ND
AMB-082	<.005	<.03	<.5	<.17	<.01	<.01	<.02	<.01	<.05	22	<.01	0.05	ND
AMB-083	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	36	0.17	4.0	ND
AMB-083	<.005	<.03	<.5	<.17	<.01	<.01	<.02	<.01	<.05	38	0.22	7.40	0.10
AMB-084	<.005	<.03	<.5	0.21	<.01	0.01	<.02	0.01	<.05	39	0.32	<.02	0.92
AMB-085	<.005	<.05	<1	<.15	<.01	<.05	<.05	<.05	<.02	21	0.87	<.02	1.11
AMB-086	<.005	<.03	<.5	<.15	<.01	<.01	<.02	0.02	<.05	34	0.14	<.02	0.7
AMB-086	<.005	<.03	<.5	0.26	<.01	<.01	<.02	0.01	<.05	32	0.11	<.02	0.52
AMB-086	<.005	<.03	<.5	<.15	<.01	<.01	<.02	0.05	<.05		1.20	<.02	1.26
AMB-086	<.005	<.05	<1	<.15	<.01	<.05	<.05	<.05	<.02	30	0.07	<.02	0.65
AMB-087	<.005	<.03	<.5	0.18	<.01	0.01	<.02	0.01	<.05	59	0.35	<.02	0.58
AMB-088	<.005	<.03	<.5	<.15	<.01	<.01	0.04	<.01	<.05	18	0.05	0.04	0.06
AMB-088	<.005	<.03	<.5	<.15	<.01	<.01	<.02	0.01	<.05	18	0.04	<.02	0.26
AMB-089	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	27	0.14	<.02	0.24
AMB-089	<.005	<.05	<1	<.15	<.01	<.05	<.05	<.05	<.02		0.12	<.02	0.16
AMB-089	<.005	<.05	<1	<.15	<.01	<.05	<.05	<.05	<.02	25	0.12	<.02	0.27
AMB-090	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	24	0.24	0.19	0.21
AMB-090	<.005	<.05	<1	<.15	<.01	<.05	<.05	<.05	<.02	24	0.26	<.02	0.27
AMB-091	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	30	0.46	0.14	0.21
AMB-091	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	30	0.49	<.02	0.38
AMB-091	<.005	<.05	<1	<.15	<.01	<.05	<.05	<.05	<.02		0.46	<.02	0.35
AMB-091	<.005	<.05	<1	<.15	<.01	<.05	<.05	<.05	<.02	31	0.49	<.02	0.32
AMB-092	<.005	<.03	<.5	<.15	<.01	<.01	<.02	0.01	<.05	26	0.74	<.02	0.74
AMB-092	<.005	<.03	<.5	<.15	<.01	<.01	<.02	0.01	<.05	31	0.79	<.02	0.71

Appendix D: Ambient Well Network Water Quality Data

Well	Location	Latitude	Longitude	County	Sub-Basin	Aquifer
AMB-092	Hilton Head Island-Wexford	33.6662222	-78.997825	Beaufort	Sav-Salk	Tertiary Limestone
AMB-092	Hilton Head Island-Wexford	33.6662222	-78.997825	Beaufort	Sav-Salk	Tertiary Limestone
AMB-093	Bluffton	32.4070611	-80.5357139	Beaufort	Sav-Salk	Tertiary Limestone
AMB-093	Bluffton	32.4070611	-80.5357139	Beaufort	Sav-Salk	Tertiary Limestone
AMB-093	Bluffton	32.4070611	-80.5357139	Beaufort	Sav-Salk	Tertiary Limestone
AMB-093	Bluffton	32.4070611	-80.5357139	Beaufort	Sav-Salk	Tertiary Limestone
AMB-094	City of Walterboro 29	32.5989944	-80.7948806	Collenton	Sav-Salk	Tertiary Limestone
AMB-094	City of Walterboro 29	32.5989944	-80.7948806	Collenton	Sav-Salk	Tertiary Limestone
AMB-094	City of Walterboro 29	32.5989944	-80.7948806	Collenton	Sav-Salk	Tertiary Limestone
AMB-094	City of Walterboro 29	32.5989944	-80.7948806	Collenton	Sav-Salk	Tertiary Limestone
AMB-095	Town of Edisto Beach #4	32.1619972	-80.7517667	Collenton	Saluda-Edisto	Tertiary Limestone
AMB-095	Town of Edisto Beach #4	32.1619972	-80.7517667	Collenton	Saluda-Edisto	Tertiary Limestone
AMB-095	Town of Edisto Beach #4	32.1619972	-80.7517667	Collenton	Saluda-Edisto	Tertiary Limestone
AMB-095	Town of Edisto Beach #4	32.1619972	-80.7517667	Collenton	Saluda-Edisto	Tertiary Limestone
AMB-096	Lieber Correctional Institute	32.2790306	-80.8162444	Dorchester	Catawba	Tertiary Limestone
AMB-096	Lieber Correctional Institute	32.2790306	-80.8162444	Dorchester	Catawba	Tertiary Limestone
AMB-096	Lieber Correctional Institute	32.2790306	-80.8162444	Dorchester	Catawba	Tertiary Limestone
AMB-097	Town of Hardeeville	32.9076556	-80.6678111	Jasper	Sav-Salk	Tertiary Limestone
AMB-097	Town of Hardeeville	32.9076556	-80.6678111	Jasper	Sav-Salk	Tertiary Limestone
AMB-097	Town of Hardeeville	32.9076556	-80.6678111	Jasper	Sav-Salk	Tertiary Limestone
AMB-097	Town of Hardeeville	32.9076556	-80.6678111	Jasper	Sav-Salk	Tertiary Limestone
AMB-098	Town of Ridgeland	32.5140389	-80.3093472	Jasper	Sav-Salk	Tertiary Limestone
AMB-098	Town of Ridgeland	32.5140389	-80.3093472	Jasper	Sav-Salk	Tertiary Limestone
AMB-098	Town of Ridgeland	32.5140389	-80.3093472	Jasper	Sav-Salk	Tertiary Limestone
AMB-098	Town of Ridgeland	32.5140389	-80.3093472	Jasper	Sav-Salk	Tertiary Limestone
AMB-099	Town of Grays	33.0863778	-80.2939667	Jasper	Sav-Salk	Tertiary Limestone
AMB-099	Town of Grays	33.0863778	-80.2939667	Jasper	Sav-Salk	Tertiary Limestone
AMB-099	Town of Grays	33.0863778	-80.2939667	Jasper	Sav-Salk	Tertiary Limestone
AMB-099	Town of Grays	33.0863778	-80.2939667	Jasper	Sav-Salk	Tertiary Limestone
AMB-100	Cope Vocation Center	32.2719167	-81.08335	Orangeburg	Saluda-Edisto	Tertiary Limestone
AMB-100	Cope Vocation Center	32.2719167	-81.08335	Orangeburg	Saluda-Edisto	Tertiary Limestone
AMB-100	Cope Vocation Center	32.2719167	-81.08335	Orangeburg	Saluda-Edisto	Tertiary Limestone
AMB-101	Orangeburg National Fish Hatchery #2	32.4859833	-80.9698694	Orangeburg	Saluda-Edisto	
AMB-101	Orangeburg National Fish Hatchery #2	32.4859833	-80.9698694	Orangeburg	Saluda-Edisto	
AMB-101	Orangeburg National Fish Hatchery #2	32.4859833	-80.9698694	Orangeburg	Saluda-Edisto	
AMB-101	Orangeburg National Fish Hatchery #2	32.4859833	-80.9698694	Orangeburg	Saluda-Edisto	
AMB-102	Town of Blackville	33.353575	-81.269725	Barnwell	Saluda-Edisto	Tertiary Sand
AMB-102	Town of Blackville	33.353575	-81.269725	Barnwell	Saluda-Edisto	Tertiary Sand
AMB-102	Town of Blackville	33.353575	-81.269725	Barnwell	Saluda-Edisto	Tertiary Sand
AMB-102	Town of Blackville	33.353575	-81.269725	Barnwell	Saluda-Edisto	Tertiary Sand
AMB-103	Oak Grove Elementary	32.6663278	-81.0232278	Lexington	Saluda-Edisto	Tertiary Sands
AMB-103	Oak Grove Elementary	32.6663278	-81.0232278	Lexington	Saluda-Edisto	Tertiary Sands
AMB-103	Oak Grove Elementary	32.6663278	-81.0232278	Lexington	Saluda-Edisto	Tertiary Sands
AMB-103	Oak Grove Elementary	32.6663278	-81.0232278	Lexington	Saluda-Edisto	Tertiary Sands
AMB-104	Town of North	33.3744389	-81.0067222	Orangeburg	Saluda-Edisto	Tertiary Sands
AMB-104	Town of North	33.3744389	-81.0067222	Orangeburg	Saluda-Edisto	Tertiary Sands
AMB-104	Town of North	33.3744389	-81.0067222	Orangeburg	Saluda-Edisto	Tertiary Sands
AMB-104	Town of North	33.3744389	-81.0067222	Orangeburg	Saluda-Edisto	Tertiary Sands
AMB-105	Pickney estates	33.4675139	-80.8588972	Sumter	Pee Dee	Tertiary Sands
AMB-105	Pickney estates	33.4675139	-80.8588972	Sumter	Pee Dee	Tertiary Sands
AMB-106	Hamilton Branch	33.9855083	-81.1580722	McCormick	Sav-Salk	Piedmont Bedrock
AMB-106	Hamilton Branch	33.9855083	-81.1580722	McCormick	Sav-Salk	Piedmont Bedrock
AMB-107	Fairview Forest Manor	33.6457361	-81.0949083	Edgefield	Sav-Salk	Piedmont Bedrock
AMB-108	Caesar's Head	33.8654889	-80.3426278	Greenville	Saluda-Edisto	Piedmont Bedrock
AMB-108	Caesar's Head	33.8654889	-80.3426278	Greenville	Saluda-Edisto	Piedmont Bedrock
AMB-108	Caesar's Head	33.8654889	-80.3426278	Greenville	Saluda-Edisto	Piedmont Bedrock
AMB-109	City of Spartanburg	33.7541778	-82.2039722	Spartanburg	Broad	Piedmont Bedrock
AMB-109	City of Spartanburg	33.7541778	-82.2039722	Spartanburg	Broad	Piedmont Bedrock
AMB-110	Chester State Park	33.9347889	-82.1223944	Chester	Broad	Piedmont Bedrock
AMB-110	Chester State Park	33.9347889	-82.1223944	Chester	Broad	Piedmont Bedrock
AMB-111	White Bluff Baptist Church	35.1074667	-82.6312611	Lancaster	Pee Dee	Piedmont Bedrock
AMB-111	White Bluff Baptist Church	35.1074667	-82.6312611	Lancaster	Pee Dee	Piedmont Bedrock
AMB-112	Westside Estates	34.9524111	-81.9354889	Chesterfield	Pee Dee	Piedmont Bedrock
AMB-112	Westside Estates	34.9524111	-81.9354889	Chesterfield	Pee Dee	Piedmont Bedrock
AMB-113	Amick Poultry	34.6841167	-81.2444389	Saluda	Saluda-Edisto	Piedmont Bedrock
AMB-113	Amick Poultry	34.6841167	-81.2444389	Saluda	Saluda-Edisto	Piedmont Bedrock
AMB-113	Amick Poultry	34.6841167	-81.2444389	Saluda	Saluda-Edisto	Piedmont Bedrock

Appendix D: Ambient Well Network Water Quality Data

Well	Date	pH	SP_CD	TDS	Hard	TOC	CL_ppm	CL_epm	CL_%-	SO4_ppm	SO4_epm	SO4_%-	ALK_ppm	ALK_epm	ALK_%-
AMB-092	01-May-93	7.6	559	330	150	26	74	2.08	41.43	20	0.42	8.37	154	2.52	50.2
AMB-092	01-May-88	8.0	400	300	100	<1	45	1.27	37.8	6	0.12	3.57	120	1.97	58.63
AMB-093	01-Jul-00	7.9	579	330	190	2.1	94.3	2.66	49.53	9	0.19	3.54	154	2.52	46.93
AMB-093	01-May-98	7.9	586	280	190		84.4	2.38	47.13	7	0.15	2.97	154	2.52	49.9
AMB-093	01-May-93	7.8	450	250	190	13.3	42.3	1.19	30.2	<10	0	0	168	2.75	69.8
AMB-093	01-May-88	7.7	430	350	230	<1	45	1.27	32.73	<10	0	0	159	2.61	67.27
AMB-094	01-Jul-00	8.8	392	250	11	2.3	5	0.14	4.05	9	0.19	5.49	191	3.13	90.46
AMB-094	01-May-98	8.7		250	12	22	4.9	0.14	2.82	82	1.71	34.48	190	3.11	62.7
AMB-094	01-May-93	9.0	356	220	8.0	11.7	4.4	0.12	3.82	<10	0	0	184	3.02	96.18
AMB-094	01-May-88	8.7	342	240	11	<1	4.5	0.13	3.79	<10	0	0	201	3.3	96.21
AMB-095	15-May-01	8.0	0.767	2000		<2	1100	30.99	75.24	96	2	4.86	500	8.2	19.91
AMB-095	01-May-98	8.2		2300	100	6.2	1300	36.62	82.98	<5	0	0	458	7.51	17.02
AMB-095	01-May-93	8.5	1970	1200	31	37	568	16	64.8	85	1.77	7.17	422	6.92	28.03
AMB-095	01-May-88	8.7	4020	2300	78	4.1	750	21.13	68.51	65	1.35	4.38	510	8.36	27.11
AMB-096	01-Jul-99	8.0	310	170	78	<2	5.1	0.14	5.09	<5	0	0	159	2.61	94.91
AMB-096	01-Jul-94	8.1	316	160	74	3.0	5.5	0.15	5.43	<5	0	0	159	2.61	94.57
AMB-096	01-May-89	7.6	270	170	68	1.0	<1	0	0	<10	0	0	152	2.49	100
AMB-097	01-Jul-00	8.2	235	140	78	<2	3.7	0.1	5.03	7	0.15	7.54	106	1.74	87.44
AMB-097	01-May-98	8.1	210	150	82		3.6	0.1	5.68	<5	0	0	101	1.66	94.32
AMB-097	01-May-93	7.9	234	160	88	7.7	7.4	0.21	10.71	<10	0	0	107	1.75	89.29
AMB-097	01-May-88	8.1	213	150	80	<1	3.5	0.1	5.35	<10	0	0	108	1.77	94.65
AMB-098	01-Jul-00	7.7	2	200	120	<2	5.5	0.15	5.79	5	0.1	3.86	143	2.34	90.35
AMB-098	01-May-98	7.9	288	190	130		5.4	0.15	6.1	<5	0	0	141	2.31	93.9
AMB-098	01-May-93	7.8	294	190	130	1.7	5.1	0.14	5.38	<10	0	0	150	2.46	94.62
AMB-098	01-May-88	7.8	250	180	140	<1	5.0	0.14	5.26	<10	0	0	154	2.52	94.74
AMB-099	01-Jul-00	7.9	269	180	110	<2	4.1	0.12	5.19	6	0.12	5.19	126	2.07	89.61
AMB-099	01-May-98	7.9	249	190	120		4	0.11	4.6	11	0.23	9.62	125	2.05	85.77
AMB-099	01-May-93	8.0	262	160	120	70	4.0	0.11	4.7	<10	0	0	136	2.23	95.3
AMB-099	01-May-88	7.9	238	180	120	<1	3.5	0.1	4.24	<10	0	0	138	2.26	95.76
AMB-100	01-May-98	7.4		140	77	<2	1.6	0.05	3.42	7	0.15	10.27	77	1.26	86.3
AMB-100	01-May-93	7.4	188	140	78	5.8	0.22	0.01	0.64	11	0.23	14.65	81	1.33	84.71
AMB-100	01-May-88	7.1	147	140	74	1.1	2.0	0.06	4.84	<10	0	0	72	1.18	95.16
AMB-101	15-May-01	7.7	241	160		<2	5.9	0.17	7.91	8.6	0.18	8.37	110	1.8	83.72
AMB-101	01-May-98	8.1	242	160	110	<2	4.9	0.14	9.52	<5	0	0	81	1.33	90.48
AMB-101	01-May-93	7.3	56	120	96	8.3	2.7	0.08	5.03	<10	0	0	92	1.51	94.97
AMB-101	01-May-88	7.4	205	170	110	<1	6.0	0.17	9.09	<10	0	0	104	1.7	90.91
AMB-102	15-May-01	7.7	217	170		<2	2.8	0.08	3.98	6.1	0.13	6.47	110	1.8	89.55
AMB-102	01-May-98	7.7		64	110	<2	2.6	0.07	3.91	<5	0	0	105	1.72	96.09
AMB-102	01-May-93	7.7	223	160	120	7.8	2.5	0.07	4.02	<10	0	0	102	1.67	95.98
AMB-102	01-May-88	7.6	198	140	110	<1	2.5	0.07	3.61	<10	0	0	114	1.87	96.39
AMB-103	15-May-01	4.8	26.1	32		<2	2.4	0.07	100	<5	0	0	<1	0	0
AMB-103	01-May-97	7.7		120	3.0	2.8	3.4	0.1	5.49	<5	0	0	105	1.72	94.51
AMB-103	01-Dec-91	7.7	290	170	2.0	1.4	71.1	2	58.65	12	0.25	7.33	71	1.16	34.02
AMB-103	01-May-87	4.9	18	12	2.0	<1	2.0	0.06	66.67	<10	0	0	2.0	0.03	33.33
AMB-104	15-May-01	5.3	28.7	38		<2	3.0	0.08	100	<5	0	0	<1	0	0
AMB-104	01-May-98	5.5		20	4	<2	2.8	0.08	72.73	<5	0	0	2	0.03	27.27
AMB-104	01-May-93	5.2	25	20	3.0	1.8	2.6	0.07	100	<10	0	0	<1	0	0
AMB-104	01-May-88	5.1	22	22	3.0	<1	2.5	0.07	70	<10	0	0	2.0	0.03	30
AMB-105	01-Jul-94	6.2	69	38	22	1.8	2.8	0.08	12.5	11	0.23	35.94	20	0.33	51.56
AMB-105	01-May-89	6.2	62	78	19	<1	2.5	0.07	20	<10	0	0	17	0.28	80
AMB-106	01-Jul-96	7.2	120	91	35	2.4	4.7	0.13	12.75	<5	0	0	54	0.89	87.25
AMB-106	01-Jun-91	7.0	114	86	36	2.3	5.1	0.14	14.14	<10	0	0	52	0.85	85.86
AMB-107	01-Jun-91	6.2	70	84	9.0	2.2	3.8	0.11	22	<10	0	0	24	0.39	78
AMB-108	15-May-01	6.2	63.1	28		<2	9.9	0.28	60.87	<5	0	0	11	0.18	39.13
AMB-108	01-Jul-96	6.6	40	22	12	<2	1.3	0.04	13.79	<5	0	0	15	0.25	86.21
AMB-108	01-Jun-91	8.4	681	370	5.0	3.4	6.0	0.17	2.6	12	0.25	3.83	373	6.11	93.57
AMB-109	01-Jul-96	7.8	220	140	66	3.1	5.5	0.15	7.94	16	0.33	17.46	86	1.41	74.6
AMB-109	01-Jun-91	7.8	217	140	63	3.0	5.1	0.14	8.59	<10	0	0	91	1.49	91.41
AMB-110	01-Jul-96	7.3	540	350	220	8.9	18	0.51	9.92	50	1.04	20.23	219	3.59	69.84
AMB-110	01-Jun-91	7.5	506	340	250	4.5	17.9	0.5	11.14	38	0.79	17.59	195	3.2	71.27
AMB-111	01-Jul-96	6.5	61	86	9	<2	4.4	0.12	24	<5	0	0	23	0.38	76
AMB-111	01-Jun-91	6.6	65	72	9.0	1.9	4.5	0.13	25.49	<10	0	0	23	0.38	74.51
AMB-112	01-Jul-96	7.6	129	120	39	2.4	2.2	0.06	5	8	0.17	14.17	59	0.97	80.83
AMB-112	01-Jun-91	7.7	131	110	42	1.5	2.2	0.06	5.41	<10	0	0	64	1.05	94.59
AMB-113	15-May-01	6.5	211	150		<2	7.1	0.2	10.36	47	0.98	50.78	46	0.75	38.86
AMB-113	01-Jul-96	6.3	256	180	87	5	8.8	0.25	11.01	50	1.04	45.81	60	0.98	43.17
AMB-113	01-Jun-91	6.4	117	78	30	2.5	6.4	0.18	14.63	15	0.31	25.2	45	0.74	60.16

Appendix D: Ambient Well Network Water Quality Data

Well	CA_ppm	CA_epm	CA_%	MG_ppm	MG_epm	MG_%	NA_ppm	NA_epm	K_ppm	K_epm	NA_K%	F_ppm	AS_ppm
AMB-092	41	2.04	36.43	11	0.91	16.25	59	2.57	3	0.08	47.32	0.39	<.005
AMB-092	23	1.15	22.77	12	0.99	19.6	67	2.91	<1	0	57.62	0.60	<.005
AMB-093	46	2.29	40.67	18	1.48	26.29	41	1.78	3	0.08	33.04		<.005
AMB-093	45	2.24	41.71	18	1.48	27.56	36	1.57	3	0.08	30.73	0.29	<.005
AMB-093	46	2.29	48.93	18	1.48	31.62	19	0.83	3	0.08	19.44	0.3	<.005
AMB-093	54	2.69	50.09	22	1.81	33.71	20	0.87	<1	0	16.2	0.40	<.005
AMB-094	2.4	0.12	3.05	1.2	0.1	2.54	81	3.52	8	0.2	94.42	1.09	<.005
AMB-094	2.6	0.13	3.02	1.3	0.11	2.56	88	3.83	9	0.23	94.42	1.12	<.005
AMB-094	2	0.1	2.59	0.69	0.06	1.55	82	3.57	5	0.13	95.85	0.84	<.005
AMB-094	2.5	0.12	3.17	1.1	0.09	2.38	82	3.57	<1	0	94.44	1.40	<.005
AMB-095			0	0								2.6	<.005
AMB-095	11	0.55	1.52	18	1.48	4.09	770	33.48	25	0.64	94.38	2.43	<.005
AMB-095	4	0.2	1.04	5.2	0.43	2.23	420	18.26	14	0.36	96.73	2.9	<.005
AMB-095	9.8	0.49	1.7	13	1.07	3.7	617	26.83	20	0.51	94.6	1.40	<.005
AMB-096	20	1	28.01	6.8	0.56	15.69	41	1.78	9	0.23	56.3	0.21	<.005
AMB-096	19	0.95	27.94	6.5	0.53	15.59	40	1.74	7	0.18	56.47	0.28	<.005
AMB-096	18	0.9	28.12	5.7	0.47	14.69	38	1.65	7	0.18	57.19	0.28	<.005
AMB-097	17	0.85	37.12	8.6	0.71	31	15	0.65	3	0.08	31.88		<.005
AMB-097	18	0.9	37.19	9	0.74	30.58	16	0.7	3	0.08	32.23	0.46	<.005
AMB-097	21	1.05	42.17	8.6	0.71	28.51	15	0.65	3	0.08	29.32	0.41	<.005
AMB-097	18	0.9	40.18	8.4	0.69	30.8	15	0.65	<1	0	29.02	0.70	<.005
AMB-098	40	2	66.67	5.7	0.47	15.67	11	0.48	2	0.05	17.67	0.2	<.005
AMB-098	42	2.09	64.71	6.9	0.57	17.65	12	0.52	2	0.05	17.65	0.1	<.005
AMB-098	43	2.14	66.67	6.2	0.51	15.89	11	0.48	3	0.08	17.45	0.19	<.005
AMB-098	44	2.19	66.97	6.8	0.56	17.13	12	0.52	<1	0	15.9	0.20	<.005
AMB-099	39	1.95	73.31	3.7	0.3	11.28	8.2	0.36	2	0.05	15.41	0.16	<.005
AMB-099	41	2.04	70.83	4.5	0.37	12.85	8.6	0.37	4	0.1	16.32	0.13	<.005
AMB-099	41	2.04	72.6	4.2	0.35	12.46	8.6	0.37	2	0.05	14.95	0.14	<.005
AMB-099	41	2.04	73.91	4.4	0.36	13.04	8.3	0.36	<1	0	13.04	0.30	<.005
AMB-100	26	1.3	69.89	3	0.25	13.44	2.6	0.11	8	0.2	16.67	0.16	<.005
AMB-100	26	1.3	69.52	3.1	0.26	13.9	2.6	0.11	8	0.2	16.58	0.22	<.005
AMB-100	25	1.25	78.12	2.9	0.24	15	2.5	0.11	<1	0	6.87	0.20	<.005
AMB-101	43	2.14	81.68	2	0.16	6.11	3.9	0.17	6.0	0.15	12.21	<.1	<.005
AMB-101	40	2	79.37	2.6	0.21	8.33	3.6	0.16	6	0.15	12.3		<.005
AMB-101	35	1.75	78.48	2.2	0.18	8.07	2.8	0.12	7	0.18	13.45	0.16	<.005
AMB-101	42	2.09	84.27	2.4	0.2	8.06	4.3	0.19	<1	0	7.66	0.10	<.005
AMB-102	42	2.09	91.67	1	0.08	3.51	1.8	0.08	1.3	0.03	4.82	<.1	<.005
AMB-102	43	2.14	90.68	1.3	0.11	4.66	1.8	0.08	1	0.03	4.66	0.14	<.005
AMB-102	44	2.19	90.87	1.3	0.11	4.56	1.8	0.08	1	0.03	4.56	0.10	<.005
AMB-102	43	2.14	92.24	1.2	0.1	4.31	1.80	0.08	<1	0	3.45	0.10	<.005
AMB-103	0.47	0.02	11.76	1	0.08	47.06	1.7	0.07	<1	0	41.18	<.1	<.005
AMB-103	0.44	0.02	0.83	0.5	0.04	1.66	54	2.35	<1	0	97.51	<0.1	<.005
AMB-103	0.33	0.02	0.68	0.39	0.03	1.01	67	2.91	0	0	98.31	0.12	<.005
AMB-103	0.27	0.01	10	0.33	0.03	30	1.40	0.06	<1	0	60	<0.1	<.005
AMB-104	0.77	0.04	25	0	0	0	2.8	0.12	<1	0	75	<.1	<.005
AMB-104	0.82	0.04	18.18	0.56	0.05	22.73	3.1	0.13	<1	0	59.09	<0.1	<.005
AMB-104	0.62	0.03	18.75	0.41	0.03	18.75	2.3	0.1	<1	0	62.5	<0.1	<.005
AMB-104	0.60	0.03	18.75	0.37	0.03	18.75	2.20	0.1	<1	0	62.5	<0.1	<.005
AMB-105	7.6	0.38	62.3	0.84	0.07	11.48	1.90	0.08	3	0.08	26.23	0.19	<.005
AMB-105	6.1	0.3	66.67	0.81	0.07	15.56	1.80	0.08	<1	0	17.78	0.10	<.005
AMB-106	6.2	0.31	25.41	4.7	0.39	31.97	12	0.52	<1	0	42.62	0.1	<.005
AMB-106	6.5	0.32	25.81	4.9	0.4	32.26	12	0.52	<1	0	41.94	0.16	<.005
AMB-107	3.1	0.15	23.08	0.20	0.02	3.08	11	0.48	<1	0	73.85	2.60	<.005
AMB-108	2.2	0.11	18.97	1	0.08	13.79	7.8	0.34	2	0.05	67.24	<.1	<.005
AMB-108	3	0.15	44.12	1.2	0.1	29.41	2	0.09	<1	0	26.47	<0.1	<.005
AMB-108	1.5	0.07	0.99	0.41	0.03	0.42	160	6.96	<6	0	98.58	0.10	<.005
AMB-109	20	1	46.51	3.9	0.32	14.88	18	0.78	2	0.05	38.6	<0.1	<.005
AMB-109	19	0.95	47.74	3.7	0.3	15.08	17	0.74	<1	0	37.19	0.14	<.005
AMB-110	57	2.84	51.54	19	1.56	28.31	22	0.96	6	0.15	20.15	0.36	<.005
AMB-110	67	3.34	55.57	19	1.56	25.96	22	0.96	6	0.15	18.47	0.43	<.005
AMB-111	2.5	0.12	22.22	0.68	0.06	11.11	7.7	0.33	1	0.03	66.67	<0.1	<.005
AMB-111	2.6	0.13	25.49	0.71	0.06	11.76	7.4	0.32	<1	0	62.75	0.20	<.005
AMB-112	13	0.65	50.39	1.6	0.13	10.08	11	0.48	1	0.03	39.53	1.1	<.005
AMB-112	14	0.7	53.03	1.7	0.14	10.61	11	0.48	<1	0	36.36	1.26	<.005
AMB-113	5.2	0.26	17.45	10	0.82	55.03	8.0	0.35	2.3	0.06	27.52	<.1	<.005
AMB-113	20	1	43.67	9	0.74	32.31	12	0.52	1	0.03	24.02	0.08	0.006
AMB-113	1.7	0.08	9.64	6.20	0.51	61.45	5.5	0.24	<1	0	28.92	0.14	<.005

Appendix D: Ambient Well Network Water Quality Data

Well	BA_ppm	CU_ppm	FE_ppm	PB_ppm	MN_ppm	ZN_ppm	AL_ppm	BE_ppm	B_ppm	CO_ppm	HG_ppm	MO_ppm
AMB-092	<.05	<.01	0.44	<.05	0.02	0.01	<.05	<.003	0.07	<.02	<.0002	0.08
AMB-092	<.05	<.05	0.14	<.05	<.05	<.05	<.05	<.001	<.05	<.05	<.0002	<.02
AMB-093	<.05	<.01	<.02	<.05	0.02	<.01	<.1	<.003	<.1	<.02	<.0002	<.02
AMB-093	<.05	<.01	<.02	<.05	0.02	<.01	<.1	<.003	0.03	<.02	<.0002	<.02
AMB-093	<.05	<.01	<.02	<.05	0.02	0.07	<.05	<.003	0.03	<.02	<.0002	<.02
AMB-093	<.05	<.05	<.05	<.05	<.05	<.05	<.05	<.001	<.05	<.05	<.0002	<.02
AMB-094	<.05	<.01	<.02	<.05	<.01	<.01	0.2	<.003	0.2	<.02	<.0002	<.02
AMB-094	<.05	<.01	<.02	<.05	<.01	<.01	<.1	<.003	0.2	<.02	<.0002	<.02
AMB-094	<.05	0.04	0.09	<.05	<.05	0.02	<.05	<.001	0.28	<.05	<.0002	0.04
AMB-094	<.05	<.05	<.05	<.05	<.05	<.05	<.05	<.001	0.16	<.05	<.0002	<.01
AMB-095												<.0002
AMB-095	<.05	<.01	0.1	<.05	<.01	<.01	<.1	<.003	2.4	<.02	<.0002	<.02
AMB-095	<.05	<.01	<.02	<.05	<.01	<.01	<.05	.003	<.02	<.02	<.0002	<.03
AMB-095	<.05	<.05	0.60	<.05	<.05	0.09	<.05	<.001	1.90	<.05	<.0002	<.02
AMB-096	<.05	<.01	<.02	<.05	<.01	<.01	<.1	<.003	<.1	<.02	<.0002	<.02
AMB-096	<.05	<.01	<.02	<.05	<.01	<.01	<.05	<.003	0.06	<.02	<.0002	<.02
AMB-096	<.05	<.05	0.01	<.05	<.01	<.01	<.05	<.001	0.06	<.02	<.0002	<.02
AMB-097	<.05	<.01	<.02	<.05	<.01	<.01	<.1	<.003	<.1	<.02	<.0002	<.02
AMB-097	<.05	<.01	<.02	<.05	<.01	<.01	<.1	<.003	0.03	<.02	<.0002	<.02
AMB-097	<.05	<.05	<.05	<.05	<.05	0.01	<.05	<.001	<.05	<.05	<.0002	<.02
AMB-097	<.05	<.05	<.05	<.05	<.05	<.05	<.05	<.001	<.05	<.05	<.0002	<.02
AMB-098	<.05	<.01	<.02	<.05	0.05	<.01	<.1	<.003	<.1	<.02	<.0002	<.02
AMB-098	<.05	<.01	<.02	<.05	0.05	<.01	<.1	<.003	<.03	<.02	<.0002	<.02
AMB-098	<.05	<.05	<.05	<.05	0.05	<.01	<.1	<.003	<.05	<.05	<.0002	<.02
AMB-098	<.05	<.05	<.05	<.05	0.06	<.05	<.05	<.001	<.05	<.05	<.0002	<.02
AMB-098	<.05	<.05	<.05	<.05	0.06	<.05	<.05	<.001	<.05	<.05	<.0002	<.02
AMB-099	<.05	<.01	<.02	<.05	0.03	<.01	<.1	<.003	<.1	<.02	<.0002	<.02
AMB-099	<.05	<.01	<.02	<.05	0.03	<.01	<.1	<.003	<.03	<.02	<.0002	<.02
AMB-099	<.05	<.05	<.05	<.05	0.04	<.05	<.05	<.001	<.05	<.05	<.0002	<.02
AMB-099	<.05	<.05	<.05	<.05	0.04	<.05	<.05	<.001	<.05	<.05	<.0002	<.02
AMB-100	<.05	0.04	0.98	<.05	0.07	4.2	<.1	0.003	<.03	<.02	<.0002	<.02
AMB-100	<.05	<.05	1.1	<.05	0.06	0.04	<.05	<.001	<.05			
AMB-100	<.05	<.05	1.70	<.05	0.05	0.60	<.05	<.001	<.05	<.05	<.0002	<.02
AMB-101	<.05	<.01	0.079	<.05	0.060	0.023	<.1	<.003	<.1	<.02	<.0002	<.02
AMB-101	<.05	<.01	0.08	<.05	<.01	0.01	<.1	<.003	<.03	<.02	<.0002	<.02
AMB-101	0.16	<.01	0.75		0.05							
AMB-101	<.05	<.05	0.38	<.05	0.07	0.06	<.05	<.001	<.05	<.05	<.0002	<.02
AMB-102	0.21	<.01	0.29	<.05	0.026	<.01	<.1	<.003	<.1	<.02	<.0002	<.02
AMB-102	0.34	<.01	0.32	<.05	0.02	<.01	<.1	<.003	<.03	<.02	<.0002	<.02
AMB-102	<.05	<.05	0.63	<.05	0.03	<.05	<.05	<.001	<.05	<.05	<.0002	
AMB-102	<.05	<.05	0.60	<.05	<.05	<.05	<.05	<.001	<.05	<.05	<.0002	<.01
AMB-103	<.05	0.065	0.062	<.05	0.015	0.021	<.1	0.0039	<.1	<.02	<.0002	<.02
AMB-103	<.05	<.01	<.02	<.05	0.01	<.01	0.08	<.003	0.09	<.02	<.0002	<.02
AMB-103	<.05	<.05	<.05	<.05	0.03	0.03	0.09	<.001	<.05	<.05	<.0002	
AMB-103	<.05	<.05	<.05	<.05	<.05	<.05	<.05	<.001	<.05	<.05	<.0002	
AMB-104	<.05	<.01	<.02	<.05	<.01	<.01	<.1	<.003	<.1	<.02	<.0002	<.02
AMB-104	<.05	0.01	<.02	<.05	<.01	0.02	<.1	0.004	<.03	<.02	<.0002	<.02
AMB-104	<.05	0.01	<.05	<.05	0.02	<.05	<.05	<.001	<.05	<.05	<.0002	
AMB-104	<.05	<.05	<.05	<.05	<.05	<.05	<.05	<.001	<.05	<.05	<.0002	<.01
AMB-105	0.06	<.01	1.00	<.05	0.02	0.01	<.05	<.003	<.03	<.02	<.0002	<.02
AMB-105	0.06	<.01	1.20	<.05	0.02	0.01	<.05	<.001	<.02	<.02	<.0002	<.02
AMB-106	<.05	<.01	<.02	<.05	<.01	0.02	<.05	<.003	<.03	<.02	<.0002	<.02
AMB-106	<.05	<.05	<.05	<.05	<.01	<.01	<.05	<.001	<.05	<.05	<.0002	
AMB-107	<.05	0.03	<.05	<.05	<.01	0.01	0.75	0.07	0.01	0.00	<.0002	
AMB-108	<.05	<.01	0.081	<.05	<.01	0.036	<.1	<.003	<.1	<.02	<.0002	<.02
AMB-108	<.05	<.01	0.21	<.05	<.01	0.57	<.05	<.003	<.03	<.02	<.0002	<.02
AMB-108												<.0002
AMB-109	<.05	<.01	0.42	<.05	0.08	0.17	0.17	<.003	<.03	<.02	<.0002	<.02
AMB-109	<.05	0.02	0.10	<.05	0.05	0.12	<.05	<.001	0.04		<.0002	
AMB-110	0.08	<.01	0.84	<.05	0.48	<.01	<.05	<.003	<.03	<.02	<.0002	<.02
AMB-110	0.07		0.46		0.39	0.01						<.0002
AMB-111	<.05	<.01	0.15	<.05	<.01	0.65	<.05	<.003	<.03	<.02	<.0002	<.02
AMB-111	<.05	<.05	0.13	<.05	0.02	0.64	<.05	<.001	<.02	<.02	<.0002	
AMB-112	<.05	<.01	<.02	<.05	0.06	0.02	<.05	<.003	<.03	<.02	<.0002	<.02
AMB-112	<.05	<.05	0.08	<.05	0.03	0.11	<.05	<.003	<.02		<.0002	
AMB-113	<.05	0.015	16	<.05	1.2	0.03	<.1	<.003	<.1	<.02	<.0002	<.02
AMB-113	<.05	<.01	21	<.05	0.29	0.39	0.18	<.003	<.03	<.02	<.0002	<.02
AMB-113			13		0.54	0.03						<.0002

Appendix D: Ambient Well Network Water Quality Data

Well	SE_ppm	AG_ppm	SN_ppm	U_ppm	CD_ppm	CR_ppm	NI_ppm	LI_ppm	SB_ppm	SI_ppm	SR_ppm	NO3_ppm	TNK_ppm
AMB-092	<.005	<.03	<.5	<.15	<.01	<.01	<.02	0.01	0.46		0.73	0.12	0.10
AMB-092	<.005	<.05	<1	<.15	<.01	<.05	<.05	<.05	<.2	39	0.54	<.02	0.20
AMB-093	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	29	1.1	<.02	0.2
AMB-093	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	28	0.99	<.02	0.24
AMB-093	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05		1.10	<.02	0.22
AMB-093	<.005	<.05	<1	<.15	<.01	<.05	<.05	<.05	<.2	30	1.20	<.02	0.31
AMB-094	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	29	0.06	<.02	0.22
AMB-094	<.005	<.03	<.5	0.21	<.01	<.01	<.02	<.01	<.05	29	0.06	<.02	0.17
AMB-094	<.005	<.05	<1	<.15	<.01	<.05	<.05	<.05	<.2		0.04	0.07	0.15
AMB-094	<.005	<.05	<1	<.15	<.01	<.05	<.05	<.05	<.2	28	0.06	<.02	0.37
AMB-095	<.002									28		<.02	1
AMB-095	<.005	<.03	<.5	0.16	<.01	<.01	<.02	0.05	<.05	29	1.1	<.02	1.07
AMB-095	<.005	<.05	<1	<.01	<.01	<.01	<.02	0.02	<.05		0.12	<.02	0.72
AMB-095	<.005	<.05	<1	<.15	<.01	<.05	<.05	<.05	<.2	12	<1	0.02	1.53
AMB-096	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	22	0.12	1.8	0.26
AMB-096	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	0.03	0.12	<.02	ND
AMB-096	<.005	<.05	<.5	<.15	<.01	<.01	<.02	<.01	<.05	22	0.11	<.02	0.46
AMB-097	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	42	0.49	<.02	ND
AMB-097	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	41	0.48	<.02	1.2
AMB-097	<.005	<.05	<1	<.15	<.01	<.05	<.05	<.05	<.2		0.46	<.02	ND
AMB-097	<.005	<.05	<1	<.15	<.01	<.05	<.05	<.05	<.2	39	0.49	<.02	0.15
AMB-098	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	34	0.33	0.95	ND
AMB-098	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	35	0.34	<.02	0.11
AMB-098	<.005	<.05	<1	<.15	<.01	<.05	<.05	<.05	<.2		0.32	<.02	0.12
AMB-098	<.005	<.05	<1	<.15	<.01	<.05	<.05	<.05	<.2	35	0.36	<.02	0.15
AMB-099	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	30	0.18	0.27	ND
AMB-099	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	31	0.19	<.02	0.26
AMB-099	<.005	<.05	<1	<.15	<.01	<.05	<.05	<.05	<.2		0.19	<.02	0.28
AMB-099	<.005	<.05	<1	<.15	<.01	<.05	<.05	<.05	<.2	30	0.20	<.02	0.17
AMB-100	<.005	<.03	<.5	<.15	<.01	<.01	<.02	0.01	<.05	24	0.14	<.02	ND
AMB-100											0.14	<.02	0.10
AMB-100	<.005	<.05	<1	<.15	<.01	<.05	<.05	<.05	<.2	40	0.14	<.02	0.13
AMB-101	<.002	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	34	0.18	0.85	
AMB-101	<.005	<.03	<.5	0.39	<.01	<.01	<.02	<.01	<.05	37	0.17	0.38	ND
AMB-101											0.17	<.02	
AMB-101	<.005	<.05	<1	<.15	<.01	<.05	<.05	<.05	<.2	35	0.18	0.84	0.17
AMB-102	<.002	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	37	0.076	<.02	ND
AMB-102	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	41	0.1	<.02	ND
AMB-102											0.10	<.02	0.13
AMB-102	<.005	<.05	<1	<.15	<.01	<.01	<.05	<.05	<.2	39	0.10	<.02	0.13
AMB-103	<.002	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	5.5	<.01	1.3	ND
AMB-103	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	5.5	<.01	0.84	ND
AMB-103										19	0.06	1.26	0.01
AMB-103												0.42	
AMB-104	<.002	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	27	<.01	1.4	ND
AMB-104	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	8.1	<.01	1.26	ND
AMB-104												1.05	0.10
AMB-104	<.005	<.05	<1	<.15	<.01	<.01	<.05	<.05	<.2	7.9	<.05	0.98	0.13
AMB-105	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	8	0.05	0.02	ND
AMB-105	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	12	0.04	0.03	ND
AMB-106	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	28	0.04	0.35	ND
AMB-106										32	0.04		
AMB-107											70		
AMB-108	<.002	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	15	0.023	0.12	ND
AMB-108	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	15	0.02	<.02	ND
AMB-108											8	0.11	
AMB-109	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	38	0.20	0.15	ND
AMB-109											39	0.19	0.06
AMB-110	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	43	0.19	<.02	ND
AMB-110											46	0.17	0.13
AMB-111	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	38	0.03	0.07	ND
AMB-111											45	0.02	
AMB-112	<.005	<.03	<.5	<.15	<.01	<.01	<.02	0.01	<.05	37	0.06	0.16	ND
AMB-112			0.06								42	0.06	0.21
AMB-113	<.002	<.03	<.5	<.15	<.01	<.01	<.02	0.040	<.05	22	0.071	<.02	ND
AMB-113	<.005	<.03	<.5	<.15	<.01	<.01	0.04	0.03	<.05	26	0.1	0.02	ND
AMB-113										27	0.03	0.06	0.14

Appendix D: Ambient Well Network Water Quality Data

Well	Location	Latitude	Longitude	County	Sub-Basin	Aquifer
AMB-114	WSHB Radio	34.6617583	-80.5575444	Hampton	Sav-Salk	Tertiary Limestone
AMB-114	WSHB Radio	34.6617583	-80.5575444	Hampton	Sav-Salk	Tertiary Limestone
AMB-114	WSHB Radio	34.6617583	-80.5575444	Hampton	Sav-Salk	Tertiary Limestone
AMB-115	McCormick CPW	34.75565	-80.4063778	McCormick	Sav-Salk	Piedmont Bedrock
AMB-116	Pelion	33.9483333	-81.6302833	Lexington	Saluda-Edisto	Black Creek
AMB-117	Brattonsville	32.6821	-81.1292778	York		
AMB-118	Orangeburg Co.	0	0	Orangeburg		
AMB-119	Mt. Pleasant	33.6948056	-81.2295	Charleston		
AMB-120	Elgin	34.8708333	-81.175	Kershaw		
AMB-121	McClellanville	32.8452778	-79.8266667	Charleston		
AMB-122	Hampton Plantation State Park	33.4980556	-80.8527778	Charleston		

Appendix D: Ambient Well Network Water Quality Data

Well	Date	pH	SP_CD	TDS	Hard	TOC	CL_ppm	CL_eperm	CL_%-	SO4_ppm	SO4_eperm	SO4_%-	ALK_ppm	ALK_eperm	ALK_%-
AMB-114	01-Jul-00	7.9	252	170	110	<2	4.2	0.12	5.56	6	0.12	5.56	117	1.92	88.89
AMB-114	01-Jul-96	7.7	254	160	100	<2	4.5	0.13	5.75	5	0.1	4.42	124	2.03	89.82
AMB-114	01-Jun-91	7.0	237	170	110	4.1	4.4	0.12	5.66	<10	0	0	122	2	94.34
AMB-115	01-Jul-00	8.3	536	380	230	<2	16.4	0.46	8.76	150	3.12	59.43	102	1.67	31.81
AMB-116	15-May-01	4.6	28.0	26		<2	2.4	0.07	100	<5	0	0	0.0	0	0
AMB-117	01-May-02	7.1	159	110	55	<2	4.1	0.12	9.37	5.5	0.11	8.59	64	1.05	82.03
AMB-118	01-May-02	8.7	170	100	19	<2	1.6	0.05	3.6	7.8	0.16	11.51	72	1.18	84.89
AMB-119	01-May-02	8.6	1970	1100	5.7	<2	120	3.38	19.31	8.9	0.19	1.09	850	13.93	79.6
AMB-120	01-May-02	5.2	20.7	24	2.6	<2	2	0.06	100	<5	0	0	<1	0	0
AMB-121	01-May-02	7.6	565	320	230	5.1	33	0.93	18.71	5.4	0.11	2.21	240	3.93	79.07
AMB-122	01-May-02	8.4	2940	1400	39	<2	540	15.21	61.16	23	0.48	1.93	560	9.18	36.91

Appendix D: Ambient Well Network Water Quality Data

Well	CA_ppm	CA_epm	CA_%	MG_ppm	MG_epm	MG_%	NA_ppm	NA_epm	K_ppm	K_epm	NA_K%	F_ppm	AS_ppm
AMB-114	39	1.95	78.31	2.4	0.2	8.03	7.2	0.31	1	0.03	13.65	0.14	<.005
AMB-114	37	1.85	75.51	2.9	0.24	9.8	7.7	0.33	1	0.03	14.69	0.12	<.005
AMB-114	39	1.95	76.47	3.2	0.26	10.2	7.8	0.34	<1	0	13.33	0.18	<.005
AMB-115	81	4.04	76.37	7.8	0.64	12.1	14	0.61	<1	0	11.53	0.22	<.005
AMB-116	0.27	0.01	11.11	0	0	0	1.8	0.08	<1	0	88.89	<.1	<.005
AMB-117	15	0.75	50.68	4.3	0.35	23.65	7.2	0.31	2.6	0.07	25.68	0.18	<.005
AMB-118	6	0.3	18.07	0.93	0.08	4.82	26	1.13	6	0.15	77.11	0.23	<.005
AMB-119	1.5	0.07	0.35	0.48	0.04	0.2	460	20	3	0.08	99.46	4.7	<.005
AMB-120	0.36	0.02	16.67	0.41	0.03	25	1.6	0.07	<1	0	58.33	<.1	<.005
AMB-121	79	3.94	69.49	8.5	0.7	12.35	20	0.87	6.4	0.16	18.17	0.11	<.005
AMB-122	6.1	0.3	1.26	5.8	0.48	2.01	520	22.61	18	0.46	96.73	2	<.005

Appendix D: Ambient Well Network Water Quality Data

Well	BA_ppm	CU_ppm	FE_ppm	PB_ppm	MN_ppm	ZN_ppm	AL_ppm	BE_ppm	B_ppm	CO_ppm	HG_ppm	MO_ppm
AMB-114	<.05	<.01	<.02	<.05	0.02	<.01	<.1	<.003	<.1	<.02	<.0002	<.02
AMB-114	<.05	<.01	<.02	<.05	0.02	<.01	<.05	<.003	<.03	<.02	<.0002	<.02
AMB-114	<.05	<.05	0.01	<.05	0.02	0.02	<.05	<.001	<.05	<.05	<.0002	<.02
AMB-115	0.07	<.01	0.06	<.05	0.15	<.01	<.1	<.003	<.1	<.02	<.0002	<.02
AMB-116	<.05	<.01	<.02	<.05	<.01	<.01	<.1	<.003	<.1	<.02	<.0002	<.02
AMB-117	<.05	<.01	<.02	<.05	<.01	2.3	<.1	<.003	<.1	<.02	<.0002	<.02
AMB-118	<.05	<.01	<.02	<.05	<.01	<.01	<.1	<.003	<.1	<.02	<.0002	<.02
AMB-119	<.05	<.01	<.02	<.05	<.01	<.01	<.1	<.003	3	<.02	<.0002	<.02
AMB-120	<.05	<.01	0.033	<.05	<.01	<.01	<.1	<.003	<.1	<.02	<.0002	<.02
AMB-121	<.05	<.01	0.8	<.05	0.18	0.019	<.1	<.003	<.1	<.02	<.0002	<.02
AMB-122	<.05	<.01	0.27	<.05	<.01	0.17	<.1	<.003	1.8	<.02	<.0002	<.02

Appendix D: Ambient Well Network Water Quality Data

Well	SE_ppm	AG_ppm	SN_ppm	U_ppm	CD_ppm	CR_ppm	NI_ppm	LI_ppm	SB_ppm	SI_ppm	SR_ppm	NO3_ppm	TNK_ppm
AMB-114	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	28	0.18	0.43	ND
AMB-114	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	25	0.19	<.02	ND
AMB-114	<.005	<.05	<1	<.15	<.01	<.05	<.05	<.05	<.02	29	0.20	<.02	0.22
AMB-115	<.005	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	37	0.42	0.34	ND
AMB-116	<.002	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	7.2	<.01	0.85	ND
AMB-117	0.01	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	42	0.082	1.2	0.12
AMB-118	<.002	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	14	0.071	<.02	<.1
AMB-119	<.002	<.03	<.5	<.15	<.01	<.01	<.02	0.02	<.05	17	0.62	<.02	0.4
AMB-120	<.002	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	5.4	<.01	1	<.1
AMB-121	<.002	<.03	<.5	<.15	<.01	<.01	<.02	<.01	<.05	47	0.39	<.02	0.89
AMB-122	<.002	<.03	<.5	<.15	<.01	<.01	<.02	0.029	<.05	20	0.38	<.02	0.68